**PatBase – Session log** 31 May 2017

***Search history***

Search 1: FT=vessel and (honeybee* or bee*) and base and wall* and lid (Results 805)

Search 2: FT=box and (honeybee* or bee*) and base and wall* and lid and hive* (Results 22)

Search 3: FT=hive* and bee* and (infestation or parasite) and wall* and mesh (Results 6)

Search 4: FT=bee* and hive* and (box or container) and foldable and wall* (Results 6)

Search 5: FT=hive* and bee* and (infestation or parasite) and wall* (Results 26)

Search 6: FT=hive* and bee* and foldable (Results 31)

- session log created:31 May 2017 05:19:01
- Update information:

**PatBase Coverage at Update 2017 Week 21 (Year 2017 Week 21)**

**PatBase Coverage includes 100+ million documents from over 100 patent–issuing authorities and includes patent applications, granted patents, utility models and designs â€“ detailed in the below coverage listings.**

**Major countries**

| Publishing body | Document type | Bibliographic publication date | | Full–Text publication date | |
|---|---|---|---|---|---|
| | | Earliest | Latest | Earliest | Latest |
| CN China | Patent Applications | 19850910 | 20170524 | 19850910 | 20170524 |
| | Patents | 19930106 | 20170524 | 19930106 | 20170524 |
| | Utility Model Applications | 19850409 | 19921230 | 19850409 | 19921230 |
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- **search:** SS1 FT=vessel and (honeybee* or bee*) and base and wall* and lid (Results 805)
- List: SS1 1–50 (FT=vessel and (honeybee* or bee*) and base and wall* and lid) (Results 805)

0) US2013130369A – SYSTEM AND METHOD INCLUDING ANALYTICAL UNITS

**1) Family number: 50527813** (US2013130369A) © PatBase

**Title:** SYSTEM AND METHOD INCLUDING ANALYTICAL UNITS

**Priority:**

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**Designated states:** AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

**International class (IPC 8–9):** B01J19/00 B01L3/00 B01L3/02 B01L7/00 C12M1/00 C12M1/16 C12M1/34 C12M1/36 C12M1/38 C12N15/09 C12P19/34 C12Q1/24 C12Q1/68 C12Q3/00 G01F23/00 G01F23/24 G01F23/26 G01N1/00 G01N1/31 G01N1/38 G01N15/06 G01N21/00 G01N27 G01N27/00 G01N31/00 G01N33/00 G01N33/52 G01N35/00 G01N35/02 G01N35/04 G01N35/10 G05B13/02 G06F19/10 (Advanced/Invention); B01L3/02 G01N35/04 G01N35/10 G06F11/00 (Advanced/Non–invention)

**CPC:** G05B13/02 B01L3/021 B01L3/52 C12M41/12 C12Q1/686 G01F23/24 G01F23/26 G06F19/10 G01N1/38 C12Q1/68 B01L3/5058 G01N35/0092 G01N35/1011 G01N35/1081 B01L3/0275 B01L3/50825 B01L3/5085 B01L3/50851 B01L3/545 B01L2200/025 B01L2200/0642 B01L2200/0668 B01L2200/12 B01L2200/147 B01L2300/021 B01L2300/022 B01L2300/024 B01L2300/042 B01L2300/044 B01L2300/045 B01L2300/046 B01L2300/0654 B01L2300/0851 B01L2300/123 B01L2300/1822 B01L2300/1827 B01L2400/043 G01N35/0098 G01N35/1016 G01N2035/00435 G01N2035/0413 G01N2035/0415 G01N2035/0436 G01N2035/0465 G01N2035/0475 G01N2035/1013 G01N2035/1025 G01N2035/1048 G01N2035/1051 G01N2035/1076 G01N35/00732 G01N2035/00752 G01N2035/00851 G01N35/1002 C12P19/34 B01L2300/18 G01N1/31 B01L7/52 G05B13/0205 G01N35/04 C12Q3/00 Y10T436/113332 G01N35/10 C12M1/16 C12M1/34 C12M1/38

**European class:** B01L3/50825 B01L3/5085 B01L3/50851 B01L7/52 G01N35/00M G01N35/04 L01L200/06H L01L200/14C6 L01L3/02E L01L300/04B L01L300/06B6 L01L300/08D2

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**Abstract:**
Source: US2013130369A Systems and methods for processing and analyzing samples are disclosed. The system may process samples, such as biological fluids, using assay cartridges which can be processed at different processing locations. In some cases, the system can be used for PCR processing. The different processing locations may include a preparation location where samples can be prepared and an analysis location where samples can be analyzed. To assist with the preparation of samples, the system may also include a number of processing stations which may include processing lanes. During the analysis of samples, in some cases, thermal cycler modules and an appropriate optical detection system can be used to detect the presence or absence of certain nucleic acid sequences in the samples. The system can be used to accurately and rapidly process samples.

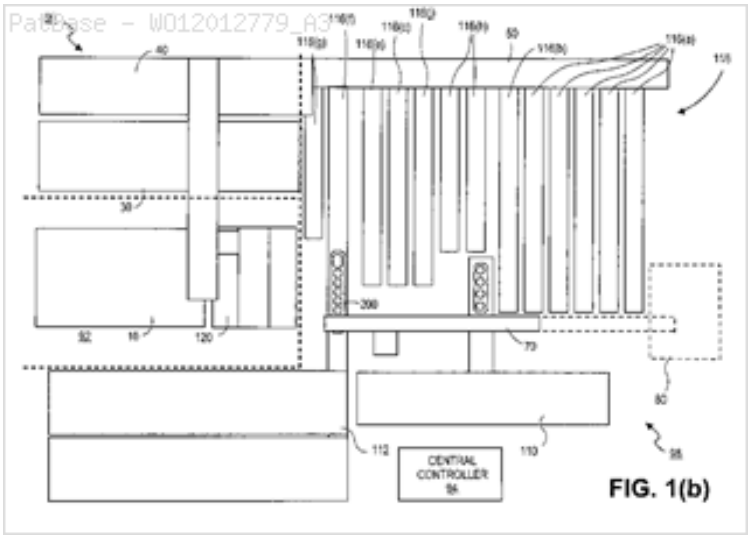


FIG. 1(b)

0) US2002110625A – CONTINUOUS PACKAGING IN ENCLOSED CONDUITS

**2) Family number: 29750624** (US2002110625A) © PatBase

**Title:** CONTINUOUS PACKAGING IN ENCLOSED CONDUITS

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**Probable Assignee:** SAFEFRESH TECHNOLOGIES LLC

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**Designated states:** AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LC LI LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MW MX MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

**International class (IPC 8–9):** A22C17/00 A22C17/08 A22C17/10 A22C18/00 A23B4/00 A23B4/12 A23B4/16 A23B4/18 A23B4/20 A23B4/24 A23B4/26 A23K1/18 A23L1/015 A23L1/27 A23L1/31 A23L1/312 A23L1/313 A23L1/317 A23L1/48 A23L13/00 A23L13/20 A23L13/30 A23L13/60 A23L3/015 A23L3/34 A23L3/3418 A23L3/3445 A23L35/00 A23L5/20 A23L5/40 A23P1/00 A23P1/02 A23P1/10 A61L2/16 B01D21/02 B01D21/26 B04B3/04 B32B37/00 B60K6/12 B61J1/08 B65B25/06 B65B31/00 B65B31/02 B65B47/02 B65B55/00 B65B55/12 B65B7/16 B65D21/00 B65D21/06 B65D5/42 B65D6/10 B65D77/20 B65D81/00 B65D81/20 B65D81/26 B65D81/28 B65D85/00 B65G47/61 C10L1/18 C10L5/00 C10L5/40 C12C3/04 F02B57/08 G01N21/00 G01N31/12 G01N33/12 G06Q30/00 (Advanced/Invention); B04B1/20 (Advanced/Non–invention); A23B4/00 A23B4/12 A23B4/14 A23B4/26 A23L1/015 A23L1/27 A23L1/31 A23L1/317 A23L3/015 A23L3/34 A23P1/02 A61L2/16 B01D21/02 B32B37/00 B65B25/00 B65B31/02 B65B7/16 B65D21/06 B65D6/00 B65D77/10 B65D81/20 B65D81/26 B65D81/28 C12C3/00 G01N33/02 (Core/Invention)

**International class (IPC 1–7):** A01J1/00 A23B4/00 A23B4/12 A23C9/12 A23L1/27 A23P1/00 B01D11/02 B61J1/08 B65B25/06 B65B31/00 B65B31/02 B65B47/02 B65B51/10 B65B55/00 B65B9/04 B65D21/00 B65D5/42 B65D77/20 B65D81/00 B65D81/20 B65D85/00 B65G47/61 C12C3/04 G01N21/00 G01N33/02

**CPC:** A61L2/202 A61L2/22 B29C66/53461 B29C66/344 B29C2795/002 B29K2027/06 B29L2031/712 B01D21/262 B04B1/20 A22C17/00 A23L3/3445 B29C65/4815 B29C65/4825 A23V2200/10 A23V2250/11 A23B4/20 A23B4/26 A23J1/02 B29C65/7894 B29C66/83413 B29C66/83421 B29C66/83531 B01D21/34 B29C66/24244 A22C17/08 B01D21/02 B01D21/2405 B01D21/2433 B01D21/2444 B01D21/2461 B01D21/2494 B01D21/26 B01D2221/06 B65D81/261 B65B7/162 B65B51/02 B65D81/263 B29C66/71 A23L13/00 A23L5/20 A23L13/60 A23L5/23 B65B7/164 A22B5/0029 A22B5/0041 A22C17/10 Y02E50/30 A23B4/10 A23L3/3409 A23V2002/00 B65B31/028 B65D77/2008 B65D77/2024 G06Q30/0621 B65D81/264 B65B25/067 B65D21/062 B65D21/066 B65D81/2076 B65D81/267 B65D81/268 B65D81/28 A23B4/12 A23B4/00 A23B4/16 A23B4/24 A23L3/0155 A23L3/3418 G01N33/02

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G06Q30/0621 K23V2/00 L01D21/26 L01D221/06 L29C65/48B2F L29C65/48B4 L29C795/00B L29K27/06 L29L31/712 Y02E50/30

**US class:** 1/1 123/44.00RS 123/44R 156/164 156/292 156/292S 156/494 156/494S 180/165 220/675 422/255 422/255S 422/261 422/268 422/269 422/273 422/274 422/275 426/108 426/118 426/127 426/127S 426/129 426/129P 426/2 426/231 426/231P 426/231S 426/232 426/235 426/235P 426/2P 426/312 426/312P 426/312S 426/315 426/315P 426/316 426/320 426/321 426/321P 426/326 426/326P 426/332 426/335 426/335S 426/35 426/35P 426/383 426/383P 426/392 426/392P 426/392S 426/393 426/393S 426/394 426/394S 426/395 426/398 426/398P 426/416 426/416S 426/417 426/417S 426/425 426/437 426/442 426/442P 426/478 426/478P 426/480 426/480P 426/480S 426/495 426/506 426/518 426/518S 426/519 426/524 426/574 426/641 426/646 426/656 44/307 44/307S 44/308 44/308S 44/589 44/605 44/628 452/150 452/150S 452/155 452/155S 452/173 452/173S 53/478 53/478P 705/1 705/1.1 705/1.100S 705/26 705/26.5

Classification Explorer

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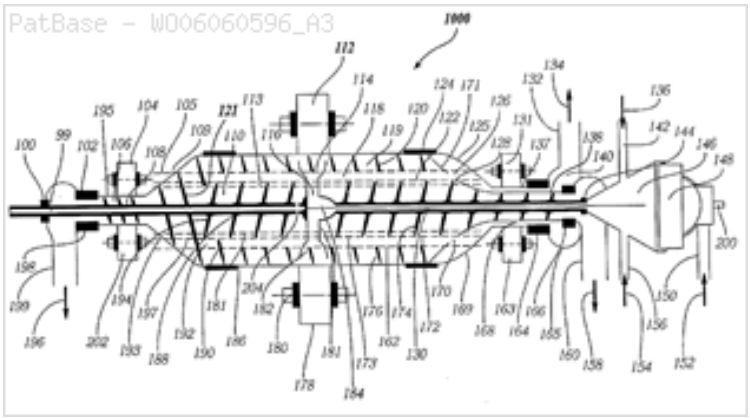
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**Abstract:**
Source: US2002110625A The invention relates to a package having a first web defining a cavity and a second web bonded to the first web, wherein the second web includes microperforations at a location that is specific to minimize the escape of liquids from the cavity to the exterior of the package. In one particular embodiment, the first web defines a four sided cavity with walls and corresponding flaps attached to the walls that can be folded and bonded to the cavity walls. The second web is an overwrapping lidding web, wherein microperforations are provided on the web material so that the microperforations are aligned with a flap recess, which in turn is in communication with the interior of the tray cavity. In this manner, suitable gas exchange can occur with minimal to no escape of liquids from the tray cavity.



0) WO11101642A2 – HEATED LIQUID VESSELS AND ELECTRICAL APPLIANCES...

**3) Family number: 44964166** (WO11101642A2) © PatBase

**Title:** HEATED LIQUID VESSELS AND ELECTRICAL APPLIANCES

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**Probable Assignee:** OTTER CONTROLS LTD

**Assignee(s):**(std)**:** MOORE ROBIN KEITH ; BOUNDY PAUL ; HUNT ANDREW ; HADFIELD ROBERT HENRY ; GAETA ANTONIO MARTIN ; HADFIELD ROBERT ; GAETA ANTONIO ; LINDLEY RICHARD ; MOORE ROBIN ; OTTER CONTROLS LTD ; WHITELEY SIMON ; WRIGHT PETER HALLAM ; WHITE IAN GEOFFREY ; SMITH DAVID ANDREW SMITH ; SIDDONS JEREMY FRANCIS ; WRIGHT PETER ; SMITH DAVID ; SO RICHARD ; SHERRATT MARK ; WHITE IAN ; AN YUAN ; AOTAI TEMPARATURE CONTROLLER SHENZHEN CO LTD ; AOTAI TEMPERATURE CONTROLLER SHENZHEN CO LTD ; OTTER CONTROLS SHENZHEN CO LTD ; OTTER CONTROLS SHENZHEN LTD ; OTTER TEMPERATURE CONTROLLER SHENZHEN CO LTD

**Assignee(s):** OTTER CONTROLS SHENZHEN LIMITED ; OTTER CONTROLS LIMITED ; AOTAI TEMPERATURE CONTROLLER SHENZHEN CO ; AOTAI TEMPARATURE CONTROLLER SHENZHEN CO ; OTTER CONTROLS SHENZHEN CO

**Inventor(s):**(std)**:** DAVID ANDREW WILLIAM ; FARLAM MARK ; FRANCIS SIDDONS JEREMY ; GEOFFREY WHITE IAN ; HADFIELD ROBERT HENRY ; HALLAM WRIGHT PETER ; HENRY HADFIELD ROBERT ; HUNT ANDREW ; KEITH MOORE ROBIN ; MARK SHERRATT ; MARTIN GAETA ANTONIO ; MOORE ROBIN ; MOORE ROBIN KEITH ; PAUL BOUNDY ; PETER HALLAM WRIGHT ; R H HADFIED ; RICHARD CHEE CHEUNG SO ; ROBERT HENRY HADFIELD ; ROBIN KEITH MOORE ; SHERRATT MARK ; SIDDONS JEREMY ; SIMON WHITELEY ; SIMOUN WHITLEY ; SMITH DAVID ; SMITH DAVID ANDREW ; SMITH DAVID ANDREW SMITH ; SMITH SMITH DAVID ANDREW ; SO RICHARD ; SO RICHARD CHEE CHEUNG ; WHITE IAN ; WHITE IAN GEOFFREY ; WHITELEY SIMON ; WHITELEY SIMON M ; WRIGHT PETER ; WRIGHT PETER H ; WRIGHT PETER HALLAM ; YUAN AN ; RICHARD WILLIAM LINDLEY ; HENDRIK JOHAN ARNOUT NIEUWENHUIS ; HADFIELD ROBERT ; GAETA TONY ; GAETA TONI ; GAETA ANTONIO MARTIN ; GAETA ANTONIO M ; GAETA ANTONIO ; DAVID ANDREW SMITH ; COLLINSON MIKE ; BUXTON MARK STUART ; BOUNDY PAUL ; MARK STUART BUXTON ; LINDLEY RICHARD WILLIAM ; LINDLEY RICHARD ; ANTONIO MARTIN GAETA ; ANDREW HUNT ; AN YUAN ; A M GETA ; WHITELI SIEMON ; PETER WRIGHT ; ORRITT TREVOR NEILL ; SIMON WHITNEY ; SIDDONS JEREMY FRANCIS ; ROBIN MOORE ; ROBIN KEITH MORE ; ROBERT HENRY HUDDERSFIELD ; ROBERT HADFIELD ; RICHARK LINDLEY ; RICHARD ZHIZHANG SU ; RICHARD SU ; RICHARD SO ; RICHARD LINDLEY ; R H HADFIELD ; PAUL BUNDY ; P H WRIGHT ; MOLE ROBIN ; PETER HAARLEM WRIGHT ; MARK RICHARD FARLAM ; MARK CHERAUTE ; FARLAM MARK RICHARD ; ANTONIO GAETA ; ANDREW HUNTER ; A M GUETTA ; WHITELEY SIMON MARK ; SIMON MARK WHITELEY ; BONDY PAUL ; TREVOR NEILL ORRITT

**Inventor(s):** SIMONWHITELEY ; ROBERTHENRYHADFIELD ; TREVORNEILLORRITT ; AMGUETTA ; PAUL BONDY ; ANDREWHUNTER ; ANTONIOGAETA ; JEREMY FRANCIS SIDDONS ; PAULBUNDY ; PAULBOUNDY ; MARKSHERRATT ; MARKCHERAUTE ; PETERWRIGHT ; RICHARDZHIZHANGSU ; RICHARDLINDLEY ; ROBIN MOLE ; ROBINKEITHMORE ; SIEMON WHITELI ; MIKE COLLINSON ; SIMONWHITNEY ; IAN WHITE ; ANTONIOMARTINGAETA ; PHWRIGHT ; TONI GAETA ; TONY GAETA ; SIMOUNWHITLEY ; SIMON M WHITELEY ; ROBINKEITHMOORE ; RICHARDSU ; RHHADFIED ; RHHADFIELD ; IAN GEOFFREY WHITE ; JEREMY SIDDONS

**Agent(s):** CROSS JAMES PETER ARCHIBALD; PATENT CORPORATE BODY ARCO PATENT OFFICE; CROSS JAMES; RGC JENKINS AND CO

**Designated states:** AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

**International class (IPC 8–9):** A47J19/00 A47J27/00 A47J27/21 A47J27/56 A47J31/00 A47J31/06 A47J31/44 A47J31/46 A47J31/54 A47J31/56 A47J31/58 A47J36/00 A47J36/14 A47J36/24 A47J36/34 A47J36/42 A47J41/00 A47J43/04 A47J43/07 A47J44/02 B65D43/16 B65D47/06 B65D81/18 F16J15/00 F16J15/02 F16J15/06 F16J15/32 F16J15/3204 F16J15/3232 F16K1/14 F24H1/18 F24H9/00 F24H9/18 F24H9/20 G01F23/00 G01F23/26 G01F23/292 G02B7/20 H01H37/04 H01H37/52 H01H37/54 H01R13/02 H01R13/40 H01R13/42 H01R13/46 H01R13/502 H01R13/52 H01R13/631 H01R13/635 H01R13/639 H01R13/648 H01R13/70 H01R13/717 H01R24/00 H01R24/38 H01R24/58 H01R33/00 H01R33/72 H01R33/94 H01R33/96 H01R33/965 H01R4/48 H05B1/00 H05B1/02 H05B3/04 H05B3/08 (Advanced/Invention); A47J27/21 (Advanced/Non–invention)

**CPC:** G02B7/20 H01R13/7172 H01R13/7175 A47J31/46 A47J31/58 A47J36/14 G01F23/00 H01R13/717 G01F23/268 G01F23/266 A47J27/21083 A47J27/21091 A47J36/34 F16J15/021 F16J15/3204 F16J15/3232 G01F23/263 G01F23/292 H01R13/5205 A47J41/0027 A47J27/21191 A47J27/21116 H01R13/42 H01R13/5227 H01R24/38 H05B3/04 H05B3/08 H01R2103/00 A47J36/24 A47J36/00 F16J15/00 A47J27/21058 A47J27/21075 A47J27/21175 A47J41/0022 A47J27/21166 H01H37/04 H01H37/54 A47J27/21 H01H37/043 H01H37/5409 A47J27/21158 A47J27/21066 A47J27/21108 A47J27/21125 H01H37/52 H05B1/0213 H01R13/7137 H01R24/78 H01R24/58 H01R24/86 H01R23/26 A47J27/2105 H01R13/453 H01R13/52 H01R13/631

**European class:** A47J27/21B3 A47J27/21B4 A47J27/21B4A1 A47J27/21C1 A47J27/21C3 A47J41/00C3T A47J41/00C5 G01F23/26B4 G01F23/26B6 K47J41/00C3T

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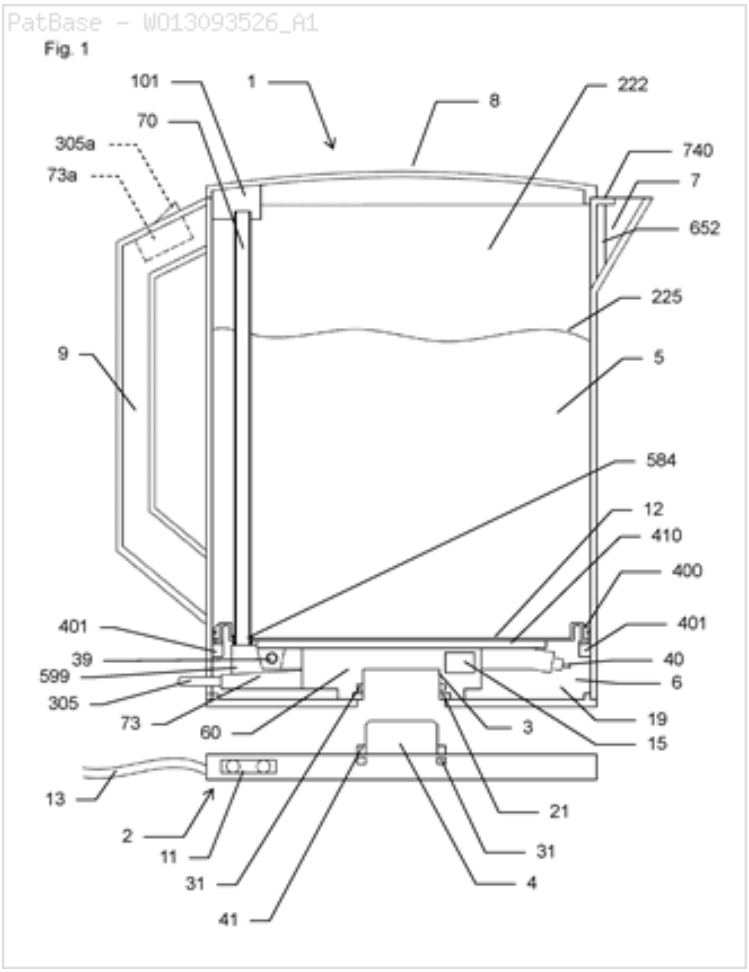
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**Forward Citations:** WO17001866, WO16070244, WO15025125, WO14128509, WO14091348, WO13093526, WO13093506, US9622483, US9382801, US2014103025, US2013264333, JP6103101,

JP2016137285, JP2015019798, GB2539930, GB2520975, GB2519619, GB2517485, GB2515828, GB2511399, GB2508744, GB2499065, GB2499057, GB2499057, GB2496404, GB2488204, GB2484571, DE202012100895, CN105496586, CN105455639, CN105147145, CN104918525, CN104706218, CN104337395, CN104246906, CN104246906, CN104138203, CN104095535, CN104068747, CN104068746, CN103908153, CN103829800, CN103829800, CN103677002, CN103519682, CN103431756, CN103414052,

**Abstract:**
A vessel or appliance comprises one or more of: a cordless optical coupling, spill−inhibiting means, a removable lid assembly, capacitive level sensing, a user interface, turbulence detection, volume−related temperature sensing, means for quickly dispensing small amounts of liquid, means for preventing overheating, a multiple action actuator, pumped circulation through a filter, a packable cordless base, a reduced diameter vessel, simplified wiring, and a cordless electrical and mechanical rotary connector.



0) US2003070446A – BEVERAGE

**4) Family number: 32396151** (US2003070446A) © PatBase

**Title:** BEVERAGE

**Priority:**

BR1999PI17559 19991117 GB19980010309 19980515 GB19980028317 19981223
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WO1999GB03814 19991117 WO1999GB03824 19991117

**Family:**

| Publication number | Publication date | Application number | Application date |
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| US2005142269 AA | 20050630 | US20050062607 | 20050222 | |
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| US7244458 BA | 20070717 | US19990700512 | 19990514 | |
| US7478583 BB | 20090120 | US20020150463 | 20020517 | |
| US7785641 BB | 20100831 | US20050062606 | 20050222 | |
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| WO9960092 A1 | 19991125 | WO1999GB01551 | 19990514 | |
| ZA200006541 A | 20020211 | ZA20000006541 | 20001110 | |

**Probable Assignee:** COORS BREWING CO

**Assignee(s):**(std)**:** BRANDBREW SA ; BRANDBREW S A ; BASS PUBLIC LTD CO ; BASS PUBLIC CO LTD ; COORS EMEA PROPERTIES INC ; COORS BREWING CO ; SCULLION SIMON DANIEL ; FOSTER PETER THOMAS ; SMITH STEPHEN PAUL ; COORS WORLDWIDE INC ; COORS WOLDWIDE INC ; BASS MACHINE HOLDINGS LTD ; BASS PLC ; COORS EURO PROPERTIES GMBH

**Assignee(s):** SIX CONTINENTS PLC ; SIX CONTINENTS HOLDINGS LTD ; BASS PLC BASS MACHINE HOLDINGS LTD BRANDBREW SA ; BASS PLC SCULLION SIMON DANIEL FOSTER PETER ; BASS PUBLIC CO ; BASS MACHINE HOLDINGS LIMITED ; COORS EUROPEAN PROPERTIES GMBH ; BASS PUBLIC LIMITED CO ; BASS PUBLIC LIMITED COMPANY ; COORS BREWING COMPANY

**Inventor(s):**(std)**:** ANDERSON IAIN WALLACE ; BOX WENDY GLADYS ; FOSTER P T ; FOSTER PETER T ; FOSTER PETER THOMAS ; GALT RACHEL JOANNA ; GLADYS WENDY ; MOLZAHN STUART WILLIAM ; PETER THOMAS FOSTER ; PT FOSTER ; QUAIN DAVID EDWIN ; SCULLION SIMON D ; SCULLION SIMON DANIEL ; SD SCULLION ; SIMON DANIEL SCULLION ; SMITH S P ; SMITH STEPHEN P ; SMITH STEPHEN PAUL ; SP SMITH ; STEPHEN PAUL SMITH ; WRIGHT ROBERT ALAN ; SCULLION S D

**Inventor(s):** SCULLION SIMON ; SMITH STEPHEN ; S D SCULLION ; S P SMITH ; P T FOSTER ; FOSTER PETER

**Agent(s):** WATERMARK PATENT AND TRADE MARKS ATTORNEYS; WATERMARK INTELLECTUAL PROPERTY PTY LTD; OGILVY RENAULT LLP SENCRL SRL; NORTON ROSE CANADA SENCRL SRL LLP; ONO SHINJIRO; SHAMOTO ICHIO; KOBAYASHI YASUSHI; TOMITA HIROYUKI; CHIBA AKIO; IZUMIYA REIKO; BAKER AND BOTTS; BAKER BOTTS LLP; SHERIDAN ROSS PC

**Designated states:** AE AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CR CU CY CZ DE DK DM EE ES FI FR GA GB GD GE GH GM GN GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

**International class (IPC 8–9):** A23L2/00 A23L2/42 A23L2/54 B67D1/00 B67D1/04 B67D1/06 B67D1/08 B67D1/14 C12G1/06 C12G3/00 C12G3/02 C12H1/00 C12H1/16 C12H1/18 F25B21/04 F25C1/10 H01L35/00 (Advanced/Invention);
A23L2/00 A23L2/42 B67D1/00 B67D1/04 C12G3/02 C12H1/00 F25B21/02 F25C1/18 F25D31/00 (Advanced/Non–invention);
A23L2/00 A23L2/42 A23L2/52 B67D1/00 C12G1/00 C12G3/02 C12H1/00 (Core/Invention);
B67D C12H (Subclass/Invention)

**International class (IPC 1–7):** A23C3/00 A23L2/00 A23L2/42 A23L3/36 B67D B67D1/04 B67D1/04 B67D1/08 B67D5/62 C12C7/26 C12G1/00 C12G3/00 C12G3/02 C12H1/00 C12H1/16 C12H1/18 F25B21/02 F25D3/08 F25D31/00 H01L35/00

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**European class:** A23L2/40 A23L2/54 B67D1/04A B67D1/06 B67D1/08D B67D1/08D2C4 B67D1/08D2C6B B67D1/08D4 B67D1/08F B67D1/08F4 B67D1/12L4 B67D1/14B B67D1/14B2 C12G1/06 C12H1/16 C12H1/18 F25B21/04 H01L35/00 L67D1/04G2 L67D1/04G4 L67D210/00D12D L67D210/00D12F R25B21/02 R25B321/021 R25C1/18 R25D31/00C2

**US class:** 426/132 426/238 426/515 426/524 426/524P 426/590 426/590P 426/592 426/592P 426/600 426/66 426/67 62/345 62/348 62/389 62/389P 62/389S 62/457.3 62/75 99/277 99/278 99/323.1 99/517

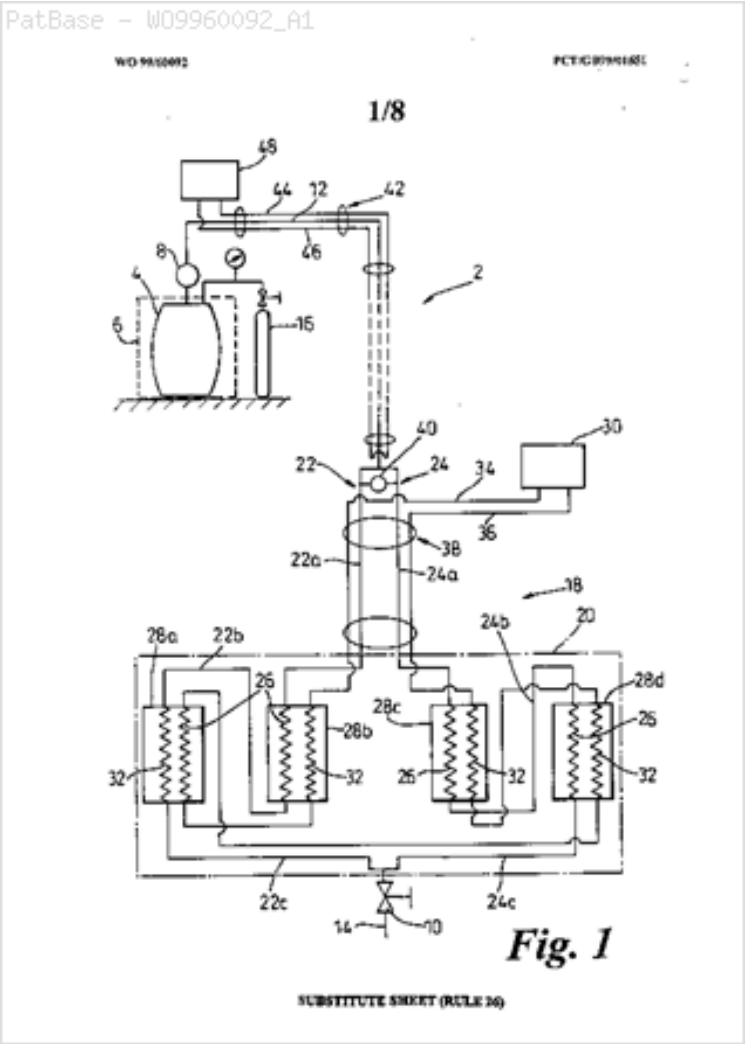
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**Abstract:**
Source: US2003070446A A draught beverage (170) which may be alcoholic or non−alcoholic, for example a lager or cider in an open−topped drinking vessel or glass (172). The beverage comprises a water content and dissolved gas content. The draught beverage is dispensed from a font at a cooled temperature below the freezing point of water at ambient atmospheric pressure. The dispense temperature may be in the range of −1 degrees centigrade to −12 degrees centigrade The beverage in the glass may or may not be subjected to external excitement energy, for example ultra−sound, to encourage formation of nucleation sites in the beverage. Either way dissolved gas bubbles out of the beverage causing occurrence of nucleation sites at which ice (188A, 188B) from the water content forms. At least in part the ice has a slushy character. A head (174) also forms on the dispensed draught beverage and below the head the ice (188A,188B) locates and develops downwards into the beverage.



0) WO08119966A2 – LIQUID HEATING VESSELS CUVES DE CHAUFFAGE DE L...

**5) Family number: 34532782** (WO08119966A2) © PatBase

**Title:** LIQUID HEATING VESSELS

**Priority:**

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| EP20080750567 | 20080512 | EP20080762397 | 20080618 | GB20070006304 | 20070330 |
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| GB20070021858 | 20071107 | GB20080008483 | 20080509 | WO2008GB01102 | 20080326 |
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**Family:**

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| WO09138736 A2 | 20091119 | WO2009GB01189 | 20090512 | |
| WO09138736 A3 | 20100311 | WO2009GB01189 | 20090512 | |

**Probable Assignee:** OTTER CONTROLS LTD

**Assignee(s):**(std)**:** OTTER CONTROLS LTD ; WRIGHT PETER HALLAM ; MIDDLETON STEPHEN ; MOORE ROBIN KEITH ; SMITH DAVID ANDREW ; SIDDONS JEREMY ; OTTER CONTROLS LED ; AOTE CONTROL CO LTD ; COLLINSON MICHAEL ; GAETA ANTONIO MARTIN ; HADFIELD ROBERT HENRY

**Assignee(s):** OTTER CONTROLS LIMITED ; AOTE CONTROL CO ; OTTER CONTROLS LTD BUXTON

**Inventor(s):**(std)**:** ANTONIO MARTIN GAETA ; COLLINSON MARTIN ; COLLINSON MICHAEL ; DAVID ANDREW SMITH ; GAETA ANTONIA MARTIN ; GAETA ANTONIO ; GAETA ANTONIO MARTIN ; HADFIELD ROBERT ; HADFIELD ROBERT HENRY ; HADFIFELD ROBERT HENRY ; HALLAM WRIGHT PETER ; HENRY HADFIELD ROBERT ; JEREMY SIDDONS ; KEITH MOORE ROBIN ; MARTIN GAETA ANTONIO ; MICHAEL COLLINSON ; MIDDLETON STEPHEN ; MOORE ROBIN ; ANDREW SMITH DAVID ; MOORE ROBIN KEITH ; PETER HALLAM WRIGHT ; ROBERT HENRY HADFIELD ; ROBIN KEITH MOORE ; SIDDONS JEREMY ; STEPHEN MIDDLETON ; WRIGHT PETER ; WRIGHT PETER H ; WRIGHT PETER HALLAM ; SMITH DAVID ; SMITH DAVID ANDREW

**Inventor(s):** SMITH DAVID MACCLESFIELD ; WRIGHT PETER LEEK ; SIDDONS JEREMY HIGH PEAK ; ROBERT HENRY HADFIFELD ; PETER H WRIGHT ; ANTONIA MARTIN GAETA ; MOORE ROBIN BUXTON ; MARTIN COLLINSON ; HADFIELD ROBERT MARPLE ; GAETA ANTONIO BUXTON

**Agent(s):** MAUCHER BOERJES JENKINS; MAUCHER JENKINS; CROSS JAMES PETER ARCHIBALD; CROSS JAMES P A ET AL; CROSS JAMES PETER ARCHIBALD ET AL; CROSS JAMES P A

**Designated states:** AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

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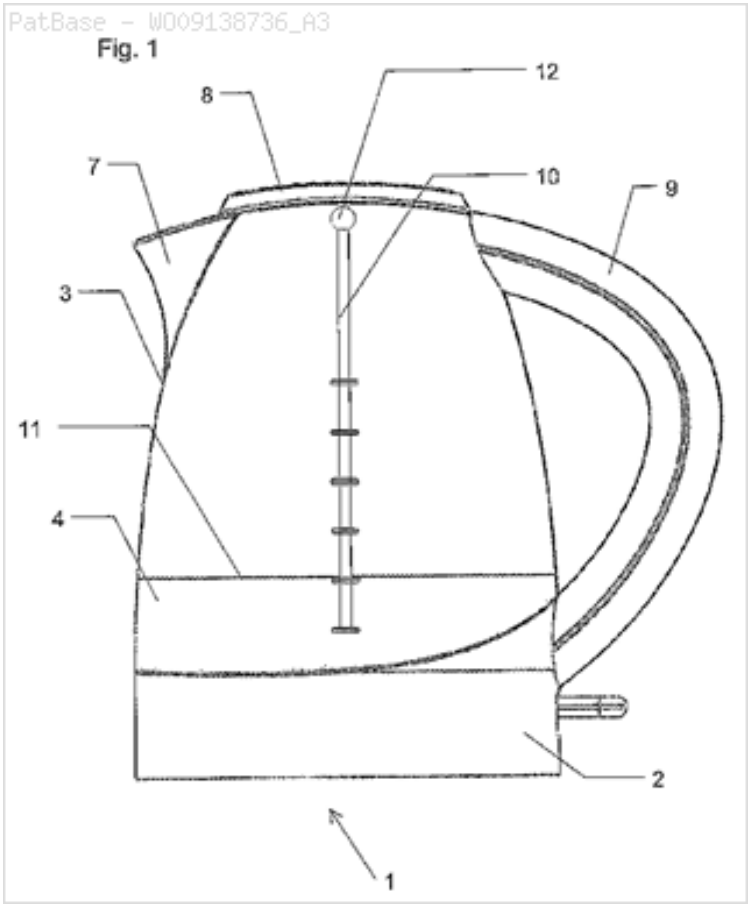
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**Abstract:**
A liquid heating vessel comprises a lower, electrically heated liquid vessel and an upper liquid vessel that is mountable on the lower vessel. Various heating arrangements are provided for heating the upper and/or lower vessel. The upper liquid vessel may be arranged so that that warm air from the lower vessel is retained in contact with a sidewall of the upper vessel. In another embodiment, the lower vessel includes a handle engageable with the upper vessel so as to retain the upper and lower vessels together.



0) US2011309093A – CUP LID WITH INTEGRATED CONTAINER

**6) Family number: 50126941** (US2011309093A) © PatBase

**Title:** CUP LID WITH INTEGRATED CONTAINER

**Priority:**

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| US20150105256P | 20150120 | US20160986701 | 20160103 | WO2012US54032 | 20120906 |
| US20160986703 | 20160103 | | | | |

**Family:**

| Publication number | Publication date | Application number | Application date |
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| WO16118366 A1 | 20160728 | WO2016US13116 | 20160112 |

**Probable Assignee:** SNACKTOPS INC

**Assignee(s):**(std)**:**

RONALD MARK BUCK ; TOP THAT LLC ; SNACKTOPS INC ; SNACKTOPS ; BUCK RONALD ; BUCK RONALD MARK

**Assignee(s):** CORPORATE FINANCIAL ADVISORY SERVICES INC ; BRIGHT LIGHT INVESTMENTS LLC

**Inventor(s):**(std)**:** BUCK RONALD MARK ; RONALD MARK BUCK

**Agent(s):** COLLISON AND CO; SMITHS IP; CARMODY MARK; ARC IP LAW PC; JOSEPH J; MANUEL; MAYO JOSEPH J; DE LA CERRA MANUEL F

**Designated states:** AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

**International class** (IPC 8–9)**:** A47G19/00 A47G19/02 A47G19/22 A47G19/30 A47G21/18 B65D21/02 B65D21/032 B65D21/036 B65D25/00 B65D25/14 B65D25/20 B65D25/34 B65D41/18 B65D43/00 B65D43/02 B65D43/04 B65D43/18 B65D47/08 B65D47/20 B65D47/26 B65D51/00 B65D51/18 B65D51/24 B65D51/28 B65D8/08 B65D81/38 B65D85/00 B65D85/72 B65G51/28 (Advanced/Invention)

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**European class:** A47G19/22B A47G19/22B4 B65D21/02K B65D51/28 B65D81/32B L65D203/00 L65D231/02A

**US class:** 1/1 206/217 206/459.1 206/459.100P 206/459.5 206/459.500S 206/501 206/524.6 206/815 220/200 220/200S 220/212 220/23.4 220/23.83 220/23.86 220/23.87 220/253 220/254.4 220/259.1 220/270 220/288 220/4.27 220/495.01 220/495.03 220/521 220/523 220/592.17 220/592.170S 220/592.2 220/600 220/669 220/669S 220/709 220/711 220/713 220/729 220/729S 220/784 220/786 220/810 220/821 220/834 220/839 220/840 220/906 426/115 426/120

Classification Explorer

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**Forward Citations:** WO17013029, WO16132070, WO16118366, WO16049689, WO16003603, WO15190681, WO15186876, WO15054620, WO15039044, WO13134307, USD786071, USD784082,

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**Abstract:**
Source: US2011309093A Cup lid with integrated container(s) that couples with the top of a cup. The cup and cup lid form at least two containment volumes, Embodiments enable easy containment, inclusion of fresh food, transportation and access of solid or liquid in the container and cup without disengagement of the cup lid from the cup. Coupling elements that couple the cup lid to the cup, or that couple containers to the lid cavity may be non−permanent, semi−permanent or permanent. Simplifies eating and drinking from one container and cup in a theater or stadium having seats for example that provide one cup−holder per seat. Provides one free hand to hold a child's hand for safety while in stadiums and amusement parks.

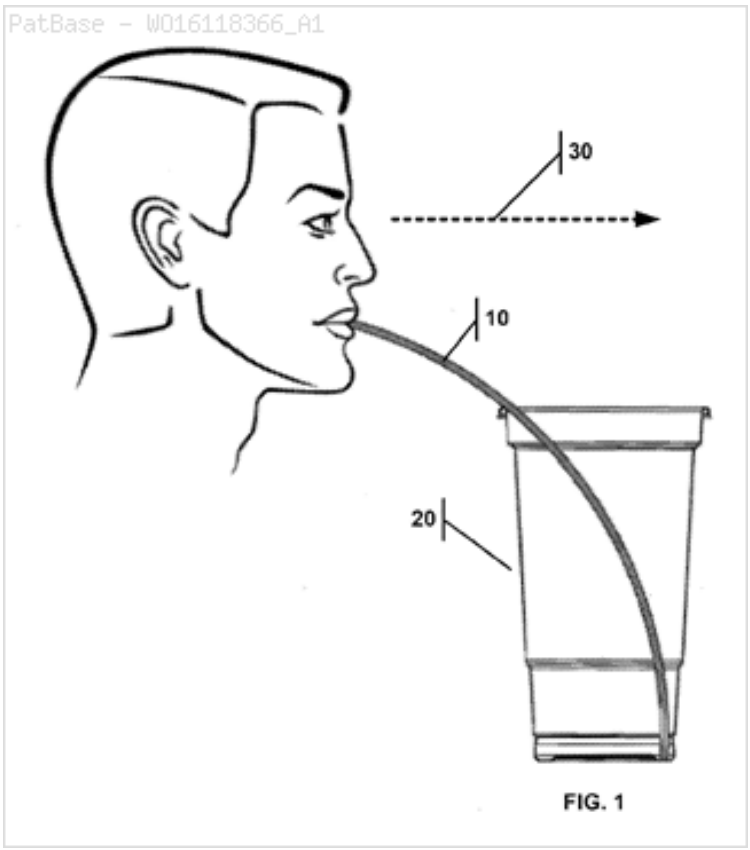


FIG. 1

0) US2002110496A – SAMPLE TAB

**7) Family number: 29768008** (US2002110496A) © PatBase

**Title:** SAMPLE TAB

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**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| AT420344 E | 20090115 | AT20040256382T | 20041015 |
| AT436010 E | 20090715 | AT20040253225T | 20040528 |
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| WO0070350 A1 | 20001123 | WO2000CA00549 | 20000511 | |
| WO9747972 A1 | 19971218 | WO1997CA00418 | 19970612 | |

**Probable Assignee:** COVIDIEN LP

**Assignee(s):**(std)**:** CADELL THEODORE E ; CME TELEMETRIX INC ; SAMSOONDAR JAMES ; PAWLUCZYK ROMUALD ; PETERSEN BORGE ; KOESSLER JUERGEN ; NIR DIAGNOSTICS INC ; SPECTROMEDICAL INC ; ZINMAN BERNARD

**Assignee(s):** SHAKLEE CORP ; SPECTROMEDICAL INC CAMBRIDGE ; VANGUARD PLASTICS LTD ; VPL ENTERPRISES LTD ; NIRESULTS INC ; MACINTYRE DUNCAN ; PRIMEX MFG

LTD ; NELLCOR PURITAN BENNETT LLC ; JAMES SAMSOONDAR ; PRIMEX MFG ; COVIDIEN LP ; 1858079 ALBERTA LTD ; ARIZONA MOLD CORP

**Inventor(s):**(std)**:** BEDNARZ BRONISLAW ; CADELL THEODORE E ; CADELL THEORDORE E ; KOESSLER JUERGEN ; MACINTYRE DUNCAN ; MACLNTYRE DUNCAN ; PAWLUCZYK ROMUALD ; PETERSEN BORGE ; SAMSOONDAR JAMES ; ZINMAN BERNARD

**Inventor(s):** JAMES SAMSOONDAR ; BORGE PETERSEN

**Agent(s):** GOWLING LAFLEUR HENDERSON LLP; OYEN WIGGS GREEN AND MUTALA LLP; CREASE DEVANAND JOHN; MAIN MALCOLM CHARLES ET AL; PATENT ADMINSTRATOR KATTEN MUCHIN ZAVIS ROSENMAN; KATTEN MUCHIN ROSENMAN LLP; MUCHIN KATTEN; ROSENMAN ZAVIS; KATTEN; ZAVIS; OYEN WIGGS GREEEN AND MUTALA LLP; ARENT FOX PLLC; ARENT FOX LLP

**Designated states:** AT BE BG CA CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT JP LI LT LU MC NL PL PT RO SE SI SK TR US

**International class** (IPC 8–9)**:** A61B5/15 B01L3/00 B65D25/00 B65D43/22 B65D53/02 B65D85/00 G01J3/433 G01N21/00 G01N21/01 G01N21/03 G01N21/11 G01N21/25 G01N21/27 G01N21/31 G01N21/33 G01N21/35 G01N21/3577 G01N21/359 G01N21/47 G01N31/00 G01N31/22 G01N33/48 G01N33/483 G01N33/487 G01N33/49 G01N33/52 G01N33/72 G01N33/96 G01N37/00 H02B1/46 H02G3/08 H02G3/10 H02G3/12 H02G3/14 H02G3/18 (Advanced/Invention); A61B5/00 G01J3/28 (Advanced/Non–invention); B01L3/00 B65D25/00 B65D43/14 B65D53/00 B65D85/00 G01J3/42 G01N21/00 G01N21/03 G01N21/11 G01N21/25 G01N21/31 G01N31/22 G01N33/483 G01N33/487 G01N33/52 G01N33/72 G01N33/96 H02B1/00 H02G3/08 H02G3/12 H02G3/14 H02G3/18 (Core/Invention); G01J3/28 (Core/Non–invention)

**International class** (IPC 1–7)**:** B01L3/00 G01C19/00 G01D18/00 G01N21/01 G01N21/25 G01N21/27 G01N21/31 G01N21/33 G01N21/35 G01N21/47 G01N21/62 G01N31/00 G01N31/22 G01N33/20 G01N33/48 G01N33/483 G01N33/49 G01N33/52 G01N33/68 G01N33/72 G01N33/96 G01N37/00 G01R13/00 G06F19/00 H02B1/46 H02G3/08 H02G3/10 H02G3/14 H02G3/18

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**European class:** A61B5/14B2 B01L3/508 G01J3/433 G01N21/03 G01N21/11 G01N21/27E G01N21/31 G01N21/31D G01N21/47G G01N33/72 G01N33/72B G01N33/72B6 G01N33/96 H02G3/08B H02G3/08D H02G3/10 H02G3/12 H02G3/14 H02G3/16 K61B5/1455 K61B5/145G L01L200/06A L01L300/04A4 L01L300/08B S01J3/28M S01N496/15 T02G3/10 T02G3/12

**US class:** 174/50 174/50P 174/60 174/65R 174/66 174/666 174/67 220/3.8 356/39 356/40 356/42 356/432 356/433 356/436 356/437 422/102 422/102P 422/500 422/547 422/547S 422/560 422/560P 422/58 422/58S 422/82.05 422/82.09 422/939 422/99 435/288.3 436/11 436/12 436/15 436/15S 436/16 436/164 436/165 436/169 436/169P 436/171 436/171S 436/22 436/22P 436/63 436/66 436/66S 436/67 436/69 436/8 436/80 436/80P 436/8P 600/328 702/10 702/104 702/104P 702/19 702/22 702/23 702/27 702/28 702/28P 702/30 702/32 702/66 702/66P 702/85 702/86 702/86P

Classification Explorer

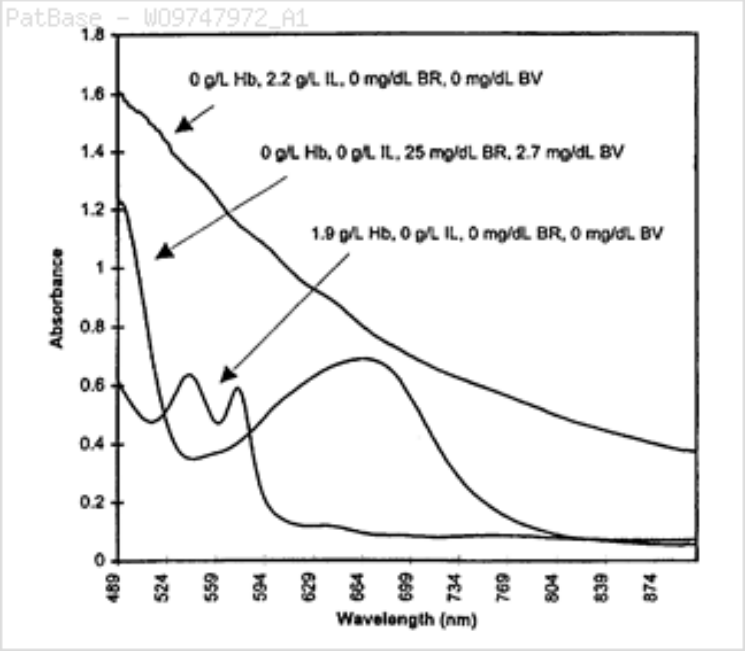
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**Abstract:**
Source: US2002110496A The invention can be summarized as follows. The present invention provides a sample lab for retaining a sample during spectrophorometric analysis. The tab comprises a base plate, sample well, at least one drainage notch for draining excess sample and a cover plate. The sample tab may also comprise an overflow ring to retain excess sample that drains from the sample well.



0) US2005232072A – REFILLABLE MATERIAL TRANSFER SYSTEM

**8) Family number: 32310950** (US2005232072A) © PatBase

**Title:** REFILLABLE MATERIAL TRANSFER SYSTEM

**Priority:** EP20050732426 20050331 JP20070506293 20050331 JP20150012919 20150127 US20080192848 20080815 US20050096356 20050331 US20040558691P 20040331 WO2005US11007 20050331 US20110209277 20110812 US20140167882 20140129

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**Inventor(s):** WILLIAMS ERIC A OJAI ; WILLIAMS ERIC ; THIBODEAU ROBERT D OXNARD ; THIBODEAU ROBERT

**Agent(s):** SMART AND BIGGAR; RIDOUT AND MAYBEE LLP; BEETZ AND PARTNER MBB PATENTANWAELTE; MCLEISH NICHOLAS ALISTAIR MAXWELL; ZBM PATENTS ZEA BARLOCCI AND MARKVARDSEN; FULWIDER PATTON LEE AND UTECHT LLP, HOWARD HUGHES CENTER; FULWIDER PATTON LEE AND UTECHT LLP HOWARD

HUGHES CENTER; FULWIDER PATTON LLP

**Designated states:** AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD ME MG MK ML MN MR MT MW MX MZ NA NE NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

**International class (IPC 8–9):** A21C1/00 B65B1/04 B65D83/00 B65G51/00 B65G65/40 B67D1/00 B67D1/04 B67D1/10 B67D5/02 B67D7/00 B67D7/02 B67D7/22 B67D7/60 B67D7/72 B67D7/78 F16J12/00 G01F11/00 (Advanced/Invention); B65D83/00 B67D1/00 (Core/Invention); B67D (Subclass/Invention)

**International class (IPC 1–7):** A21C1/00 B67D5/02

**CPC:** B67D7/0238 B67D7/78 B67D7/0227 B67D7/0233 B67D2210/0016

**European class:** B67D7/02D B67D7/02E

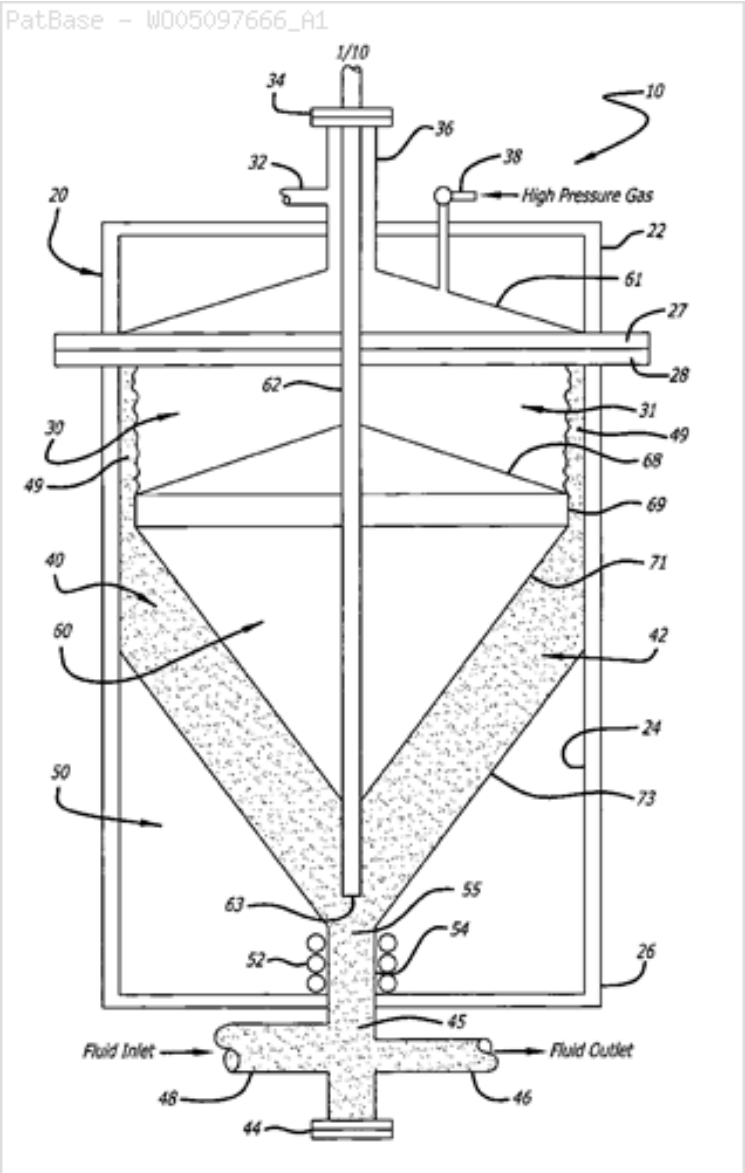
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Classification Explorer

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**Forward Citations:** WO15109298, WO13032612, WO07048011, WO07048011, US9624023, US9341283, US8684238, US8534499, US8413856, US2011315718, US2009261128, US2007090132, US2006223173, RU2616462, JP2009512610, JP2008241041, EP2902357, CN105752926, CN105173781, CN104039685, CN104039685, CN103072933,

**Abstract:**
Source: US2005232072A A material transfer system for storing, transferring and dispensing viscous material, such as fluids and liquids, includes a material containment vessel with an upper region incorporating a motive force and a bottom region with a material ingress and egress opening. A diconical or other shaped force transfer device is located in the material containment area. The force transfer device is an energy transducer when the material containment is filled with highly viscous materials, such as adhesives, sealants, mastics or lubricating greases. The force transfer device serves as an integral part of a level indicator for both viscous fluids and lower viscosity liquids. The viscous material itself forms a seal between the interface region of the force transfer device and the inside wall of the fluid vessel. Vertical stabilizing elements may extend outward from the force transfer device.



**9) Family number: 28180195** (US2002049374A) © PatBase

**Title:** METHOD AND APPARATUS FOR SIGNAL TRANSMISSION AND DETECTION USING A CONTACT DEVICE

**Priority:**

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**Designated states:** AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

**International class (IPC 8–9):** A21B3/16 A61B10/00 A61B18/04 A61B3/00 A61B3/10 A61B3/117 A61B3/12 A61B3/16 A61B3/18 A61B5/00 A61B5/01 A61B5/02 A61B5/022 A61B5/024 A61B5/0245 A61B5/025 A61B5/03 A61B5/11 A61B5/145 A61B5/1455 A61B5/1459 A61B5/1486 A61B5/18 A61B6/00 A61B8/00 A61B8/06 A61F4/00 A61F9/00 A61F9/007 A61K31/409 A61K45/00 A61M31/00 A61M35/00 A61M36/12 A61N1/365 A61N1/372 A61N1/39 A61N5/00 A61N5/02 A61N5/06 A61N5/10 A61P27/02 A61P27/06 A61P35/00 A61P9/00 G01N21/35 G01N27/327 G01N27/416 G01N33/50 G01N33/84 G01N33/92 G08B21/06 (Advanced/Invention); A61B3/10 A61B3/12 A61B3/16 A61B5/01 A61B5/03 A61B5/1486 A61B5/18 A61B8/06 A61F2/16 A61K41/00 A61K49/00 A61M5/168 A61M5/172 A61N1/365 A61N1/39 A61N5/06 G01N33/50 G01S13/74 G02C11/00 (Advanced/Non–invention); A61B3/12 A61B3/16 A61B5/00 A61F9/00 (Core/Invention); A61B5/03 A61B5/16 A61B8/06 (Core/Non–invention)

**International class (IPC 1–7):** A21B3/16 A61B10/00 A61B13/00 A61B3/10 A61B3/117 A61B3/12 A61B3/16 A61B5/00 A61B5/02 A61B5/022 A61B5/025 A61B5/11 A61B5/145 A61B5/18 A61F9/00 A61F9/007 A61K31/409 A61K45/00 A61N1/365 A61N1/39 A61N5/06 A61N5/10 A61P27/02 A61P27/06 A61P35/00 A61P9/00 G01N21/35 G01N27/327 G01N27/416 G01N33/50 G01N33/84 G01N33/92

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**US class:** 351/205 351/219 600/2 600/2S 600/309 600/318 600/318P 600/318S 600/319 600/321 600/321P 600/323 600/323P 600/383 600/398 600/399 600/399P 600/399S 600/400 600/400S 600/404 600/404S 600/405 600/405P 600/474 600/474S 600/475 600/475P 600/476 600/549 600/549S 600/558 600/558P 600/561 600/8 600/8S 604/300 604/521 604/521S 607/88 607/88S

Classification Explorer

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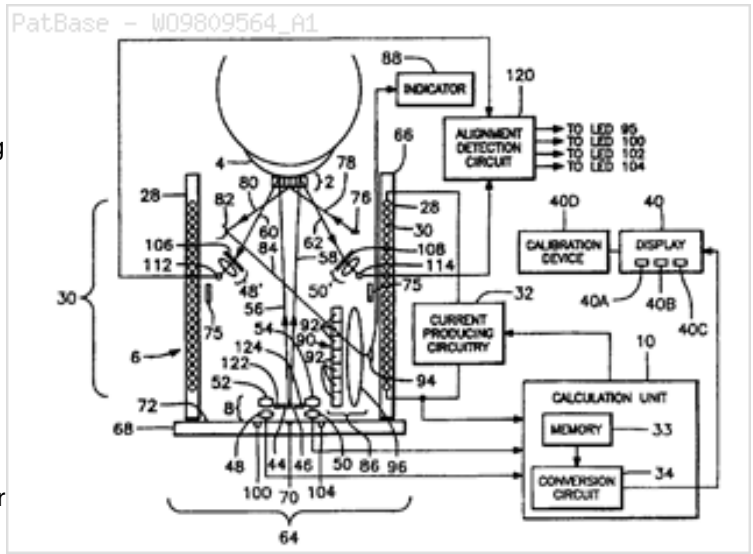
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**Abstract:**
Source: US2002049374A Utilization of a contact device placed on the front part of the eye in order to detect physical and chemical parameters of the body as well as the non−invasive delivery of compounds according to these physical and chemical parameters, with signals preferably being transmitted continuously as electromagnetic waves, radio waves, infrared and the like. One of the parameters to be detected includes non−invasive blood analysis utilizing chemical changes and chemical products that are found in the front part of the eye and in the tear film. A transensor mounted in the contact device laying on the cornea or the surface of the eye is capable of evaluating and measuring physical and chemical parameters in the eye including non−invasive blood analysis. The system preferably utilizes eye lid motion and/or closure of the eye lid to activate a microminiature radio frequency sensitive transensor mounted in the contact device. The signal can be communicated by cable, but is preferably actively or passively radio telemetered to an externally placed receiver. The signal can then be processed, analyzed and stored. Several parameters can be detected including a complete non−invasive analysis of blood components, measurement of systemic and ocular blood flow, measurement of heart rate and respiratory rate, tracking operations, detection of ovulation, detection of radiation and drug effects, diagnosis of ocular and systemic disorders and the like. Other advantages are somnolence awareness, activation of devices by disabled



individuals, a new drug delivery system and new therapy for ocular and neurologic disorders, and treatment of cancer in the eye or other parts of the body, and an evaluation system for the overall health status of an individual. The device quantifies non–invasively the amount of the different chemical components in the blood using a contact device with suitable electrodes and membranes laying on the surface of the eye and in direct contact with the tear film or surface of the eye, with the data being preferably transmitted utilizing radio waves, but alternatively sound waves, light waves, wire, or telephone lines can be used for transmission.

0) US2011300270A – COOKING DEVICE AND METHOD OF MEAL PREPARATION

**10) Family number: 46628660** (US2011300270A) © PatBase

**Title:** COOKING DEVICE AND METHOD OF MEAL PREPARATION

**Priority:** NZ20090574632 20090202 WO2010NZ00010 20100202

**Family:**

| Publication number | Publication date | Application number | Application date |
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**Probable Assignee:** KOPPENS PAUL

**Assignee(s):**(std)**:** KOPPENS PAUL ; KOPPENS PAUL ANTHONY

**Inventor(s):**(std)**:** ANTHONY KOPPENS PAUL ; KOPPENS PAUL ANTHONY

**Agent(s):** A J PARK; AJ PARK; PALMER DEAN A; LORD MICHAEL; GIBSON ANTON JOHN

**Designated states:** AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

**International class (IPC 8–9):** A23L1/01 A23L5/10 A47J27/00 A47J27/14 A47J36/00 A47J36/34 A47J37/10 A47J47/01 B67D7/00 (Advanced/Invention); A47J43/044 (Advanced/Non–invention)

**CPC:** A47J36/32 A47J27/004 A47J27/14

**European class:** A47J27/00B A47J36/32

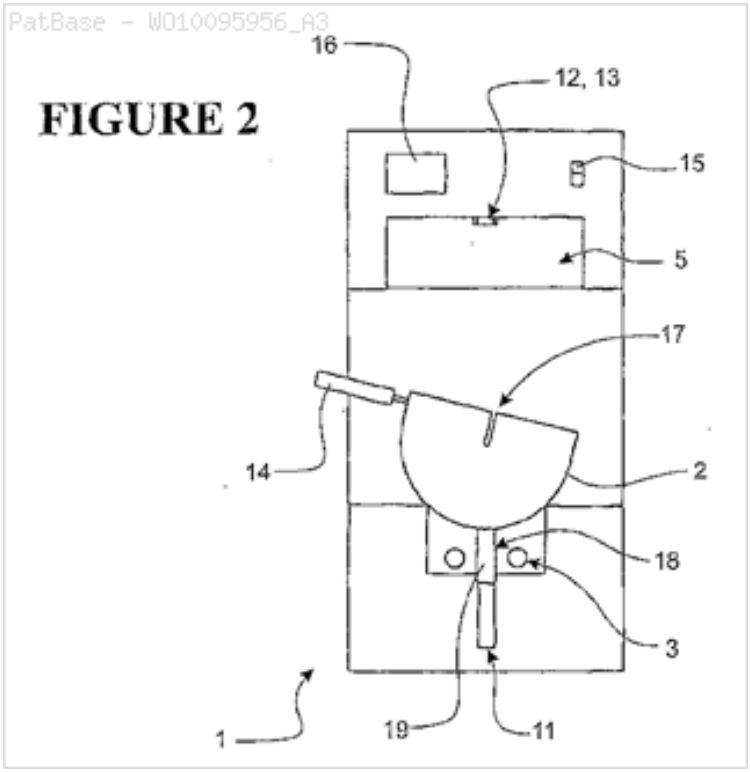
**US class:** 222/129 426/115 426/115P 426/231 426/231S 99/352 99/352S

Classification Explorer

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**Forward Citations:** WO13121386, US9619958, US9600850, US9240028, US9111256, US9037478, US8989895, US8892249, US2016128503, US2015298081, US2013054385, US2013054383, US2013054015, US2013054013, US2013054009,

**Abstract:**
Source: US2011300270A A pre−loadable cartridge for retaining and dispensing of ingredients of a meal to be subsequently cooked, the cartridge including an ingredient separating portion of at least two compartments, one for solid ingredient and one for liquid ingredient. Also includes is a base portion that together with the ingredient separating portion defines a receptacle for retaining said ingredients in each compartment. The ingredient separating portion and base portion are moveable relative to each other. Each compartment includes a first aperture, and the base portion includes at least one second aperture, such that in use, the ingredient separating portion is able to be moved relative to the base portion to allow the first aperture of each compartment to be moved into operable communication with at least one second aperture to provide an outlet passage for ingredient in each compartment from the cartridge through the base portion.



0) US2005072525A – APPARATUS TO IMPROVE WAFER TEMPERATURE UNIFORMI...

**11) Family number: 48169001** (US2005072525A) © PatBase

**Title:** APPARATUS TO IMPROVE WAFER TEMPERATURE UNIFORMITY FOR FACE–UP WET PROCESSING

**Priority:**

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**Designated states:** AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

**International class (IPC 8–9):** C23C16/46 C23C16/54 B01J23/46 B01J37/02 B01J37/08 B05B7/16 B05C1/00 B05C11/00 B05C11/02 B05C13/00 B05C13/02 B05C19/02 B05C3/00 B05C3/02 B05C3/09 B05C5/00 B05D3/00 B05D3/04 B05D3/10 B05D3/12 B05D5/00 B05D5/12 B05D7/00 B05D7/20 B32B9/00 C23C16/00 C23C16/04 C23C16/06 C23C16/14 C23C16/448 C23C16/455 C23C16/458 C23C18/16 C23C18/18 C23C18/28 C23C18/31 C23C18/40 C23C26/00 C23C26/02 C23C28/00 C23F1/00 C23F1/08 C23F1/16 C25D19/00 C25D5/22 C25D7/12 G09G3/00 H01G9/00 H01L21/00 H01L21/02 H01L21/20 H01L21/205 H01L21/28 H01L21/285 H01L21/288 H01L21/306 H01L21/3205 H01L21/326 H01L21/44 H01L21/67 H01L21/687 H01L21/768 H01L23/52 H01L23/532 H05H1/24 (Advanced/Invention); B05D7/20 H01L21/288 (Advanced/Non–invention); B01J23/46 B01J37/00 B05C1/00 B05C11/02 B05C13/00 B05C3/00 B05D3/00 B05D3/04 B05D3/12 B05D5/00 B05D5/12 B05D7/00 B05D7/20 B32B9/00 C23C16/00 C23C16/04 C23C16/06 C23C16/448 C23C18/16 C23C18/18 C23C18/31 C23C26/00 C23C26/02 C23C28/00 G09G3/00 H01G9/00 H01L21/00 H01L21/02 H01L21/67 H01L21/70 H01L23/52 H05H1/24 (Core/Invention); H01L21/02 (Core/Non–invention)

**International class (IPC 1–7):** B05C11/02 B05C13/00 B05C19/02 B05C3/00 B05D3/04 B05D3/10 B05D3/12 C23C16/00 C23C16/06 C23C16/458 C23C18/16 C23F1/00 C25D7/12 H01L21/00 H01L21/288 H01L21/306 H01L21/326

**CPC:** C23C18/1669 C23C18/1676 H01L21/67248 C23C16/18 C23C18/1651 C23C18/166 C25D5/54 H01L21/76826 H01L21/76871 H01L2221/1089 H01L21/76846 C23C18/163 H01L21/67155 C23C26/00 C23C26/02 H01L21/67126 H01L21/68728 H01L21/68735 C23C16/34 H01L21/67207 H01L21/67742 H01L21/67745 Y10S134/902 H01L21/6715 H01L21/67167 H01L21/68742 H01L21/68771 H01L21/68792 C23C16/04 B82Y30/00 C03C17/10 C23C14/024 C23C14/04 C23C14/08 C23C14/228 C23C16/0272 C23C16/40 C23C18/1608 C23C18/165 C23C18/1893 C23C18/2086 C23C18/30 C23C18/31 H01L21/28556 H01L21/32051 H01L21/76864 H01L31/02008 H05K3/181 H05K3/389 Y02E10/50 C25D7/123 C23C18/1632 C23C18/1889 H01L21/67046 H01L21/67109 C25D17/001 C23C18/1653 C23C18/168 C23C18/1685 C23C18/1689 H01L21/02063 H01L21/02068 H01L21/02087 H01L21/28518 H01L21/28562 H01L21/67051 H01L21/6719 H01L21/6723 H01L21/67751 H01L21/68785 H01L21/76814 H01L21/76843 H01L21/76856 H01L21/76873 H01L21/76874 H01L31/0512 C23C16/06 C23C16/4488 C23C16/45525 C23C16/45536 C23C16/45544 C23C16/5096 Y10T29/417 H01L21/76838 C23C18/1601 C23C18/1619 C23C18/1628 C23C18/1678 C23C18/1682 C23C18/1872 C23C18/28 H01L21/288 H01L31/022425 H01G9/00

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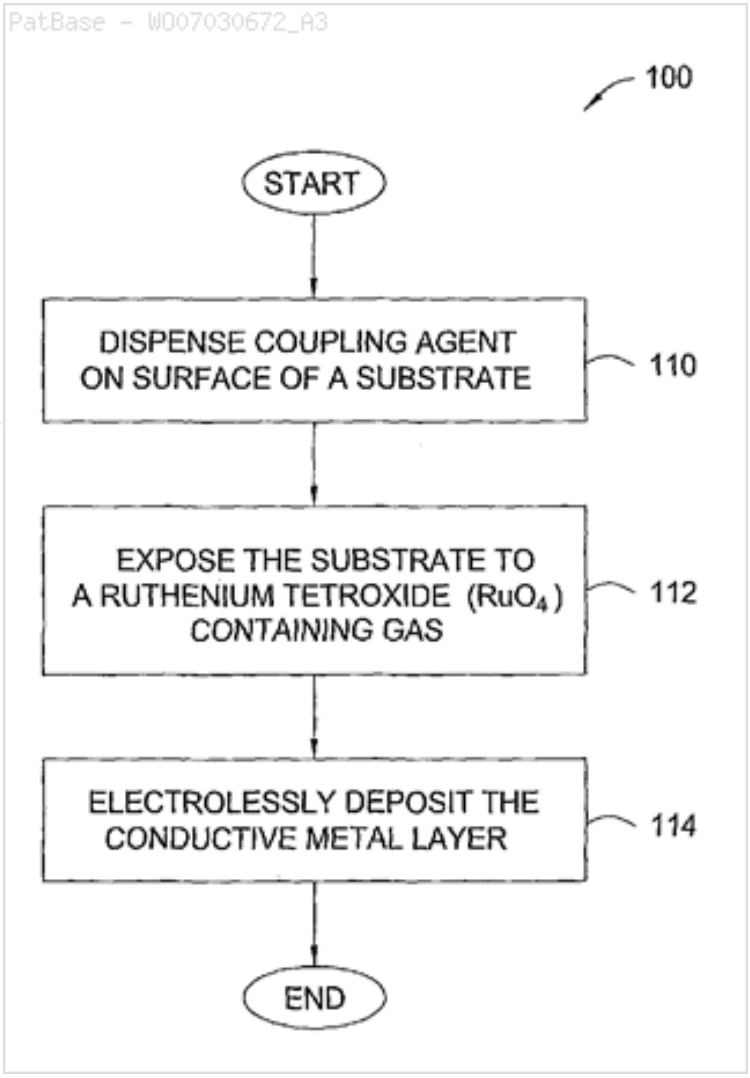
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**Forward Citations:** WO17014818, WO17008790, WO15076405, WO15041746, WO14189788, WO13150903, WO13034411, WO12164454, WO11153420, WO11153420, WO11072268, WO11066488, WO10101859, WO10068597, WO09139826, WO09139826, WO09114965, WO09109934, WO09088522, WO09088522, WO09061666, WO08151104, WO08144076, WO08142653, WO08142653, WO08137399, WO08130519, WO08118222, WO08102320, WO08102320, WO08055007, WO08051359, WO08039606, WO08002977, WO07121249, WO07100788, WO07100788, WO07081434, WO05073430, WO05073430, WO05038094, WO05038094, USD630921, USD591695, US9634106, US9633929, US9631272, US9613822, US9607856, US9607842, US9587307, US9583348, US9576809, US9570328, US9564296, US9564272, US9553102, US9553016, US9534285, US9532401, US9527189, US9520303, US9502258, US9499898, US9496167, US9493879, US9490138, US9478434, US9478432, US9478412, US9472502, US9472417, US9472412, US9469899, US9462921, US9453683, US9449862, US9449850, US9449846, US9449845, US9443736, US9437451, US9425058, US9418858, US9412608, US9406557, US9406523, US9396989, US9394609, US9390937, US9385028, US9384997, US9379011, US9378978, US9378969, US9373522, US9373517, US9368364, US9362130, US9355922, US9355863, US9355862, US9355856, US9349605, US9349392, US9347706, US9343272, US9324576, US9309598, US9305840, US9299583, US9299582, US9299575, US9299538, US9299537, US9293568, US9287170, US9287152, US9287134, US9287110, US9287095, US9269590, US9263278, US9255331, US9249507, US9245762, US9238865, US9236266, US9236265, US9236247, US9223203, US9209074, US9209012, US9202801, US9190325, US9190293, US9184055, US9165786, US9159606, US9153442, US9139906, US9136273, US9132436, US9129897, US9127864, US9127351, US9117860, US9117855, US9114438, US9111877, US9111749, US9093390, US9093371, US9082614, US9076888, US9064911, US9064816, US9064815, US9051641, US9040422, US9039840, US9034770, US9027508, US9027342, US9023734, US9023732, US9012302, US8999856, US8999432, US8997764, US8993055, US8980763, US8978675, US8975152,

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**Abstract:**
Source: US2005072525A A method and apparatus for controlling a substrate temperature during an electroless deposition process. The apparatus includes a deposition cell configured to support a substrate at a position above a fluid distribution member. A heated fluid is dispensed from the fluid distribution member and contacts the backside of the substrate, thus heating the substrate. The fluid is dispensed from apertures configured to maintain a constant temperature across the substrate surface. The method includes flowing a heated fluid through a diffusion member against a backside of the substrate in a configuration that is configured to generate a constant processing temperature across the front side or processing side of the substrate.



0) US2008257168A – DEVICE FOR STIRRING AND COOKING FOOD

**12) Family number: 42409352** (US2008257168A) © PatBase

**Title:** DEVICE FOR STIRRING AND COOKING FOOD

**Priority:** US20070912971P 20070420 US20080106309 20080420 US20120350976 20120116 US20140159383 20140120

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| US2008257168 AA | 20081023 | US20080106309 | 20080420 |
| US2012114815 AA | 20120510 | US20120350976 | 20120116 |
| US2014134305 AA | 20140515 | US20140159383 | 20140120 |
| US8122815 BB | 20120228 | US20080106309 | 20080420 |
| US8640606 BB | 20140204 | US20120350976 | 20120116 |
| US9609975 BB | 20170404 | US20140159383 | 20140120 |

**Probable Assignee:** WOLFE AMY

**Assignee(s):**(std)**:** WOLFE AMY

**Inventor(s):**(std)**:** WOLFE AMY

**Agent(s):** JOHN DOUGHTY; JOHN L

**International class** (IPC 8–9)**:** A23L1/025 A23L5/30 A47J27/00 A47J36/00 A47J36/16 A47J43/046 A47J43/07 (Advanced/Invention); A23L1/025 (Core/Invention)

**CPC:** A47J27/002 A47J27/004 A47J36/165 A47J43/046 A47J43/0727

**European class:** A47J36/16B A47J43/046 A47J43/07D

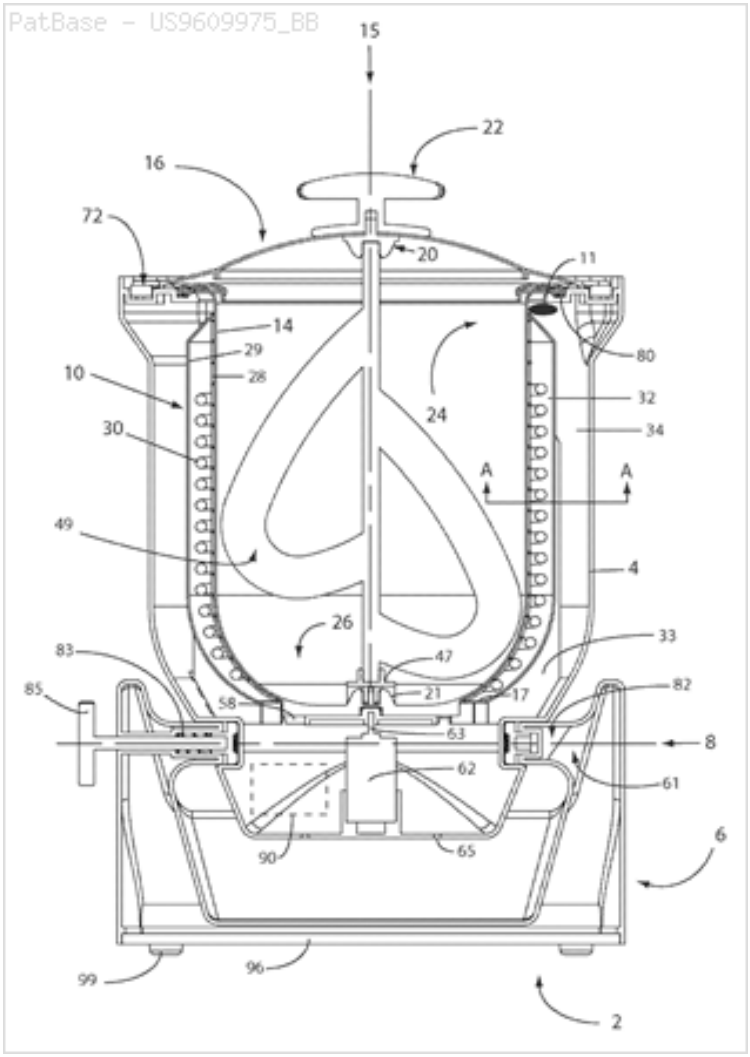
**US class:** 219/389 219/432 219/433 426/231 426/231P 99/334 99/334S 99/348 99/348P 99/348S

Classification Explorer

**Cited documents:** US8707862 BA, US8640606 BB, US8122815 BB, US7412922 BB, US6644178 BB, US6089143 A, US5980099 A, US5935480 A, US5910264 A, US5819636 A, US5766661 A, US5524530 A, US5512733 A, US5386102 A, US5363746 A, US5182981 A, US5092229 A, US5074201 A, US5027697 A, US4901633 A, US4779522 A, US4763567 A, US4706558 A, US4649810 A, US4643163 A, US4450758 A, US4325643 A, US4301717 A, US4173925 A, US4120981 A, US4049243 A, US3691938 A, US3635147 A, US2012114815 AA, US2009120301 AA, US2008257168 AA, US2008190301 AA, US2006219100 AA, US2006044935 AA, US2005223906 AA, US2003192435 AA,

**Forward Citations:** WO15196891, WO14132105, WO14080177, WO13126734, WO12103742, WO11047545, US9642392, US9609975, US9578987, US9549637, US9549570, US8931401, US8707862, US8640606, US8171601, US8122815, US2016256005, US2016081509, US2015366393, US2015342389, US2015320251, US2015033951, US2014263287, US2014263286, US2014134305, US2013074700, US2012247343, US2012213900, US2012174798, US2012114815, US2011048246, US2010064901, GB2508155, EP2907430, EP2903486, EP2772165, EP2756785, CN105310459, CN103960995, CN103099542, CN102599800,

**Abstract:**
Source: US2008257168A A cooking device and method heats a removable vessel with heaters of a cooking capsule, which includes a separator wall between the heaters and vessel. The heaters mount to the separator wall. The capsule is fixed in a housing, which also mounts a motor that rotates the vessel. The housing tiltably mounts on a base. Accessories can be fixed to the vessel or a lid secured to the housing, so the accessories can rotate with the vessel or remain stationary with respect to the vessel as it rotates. A locking mechanism that secures the lid to the housing prevents lid detachment when the vessel counter–rotates and an accessory is fixed to the lid. A heat sink wall reflects heat toward the vessel and fins draw heat from the heat sink wall away from the housing and out vent holes. Computer hardware and software control power to the motor and heaters.



0) US2015098298A – BLENDER

**13) Family number: 58902175** (US2015098298A) © PatBase

**Title:** BLENDER

**Priority:** US20130047954 20131007 US20140507180 20141006 WO2014US59345 20141006

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| AU2014332219 AA | 20150416 | AU20140332219 | 20141006 |
| CA2920786 AA | 20160208 | CA20142920786 | 20141006 |
| CL2016000778 A1 | 20161007 | CL20160000778 | 20160404 |
| CN105592763 A | 20160518 | CN201480052463 | 20141006 |
| CO16048108 A2 | 20160610 | CO20160048108 | 20160225 |
| EA201690558 A1 | 20160729 | EA20160090558 | 20141006 |
| EP3021720 A2 | 20160525 | EP20140852324 | 20141006 |
| EP3021720 A4 | 20160831 | EP20140852324 | 20141006 |
| HK1218848 A1 | 20170317 | HK20160106961 | 20160616 |
| IL243695 A0 | 20160421 | IL20140243695 | 20141006 |
| IN201637012165 A | 20160708 | IN201637012165 | 20160406 |
| JP2016531723 T2 | 20161013 | JP20160546901T | 20141006 |
| KR20160065075 A | 20160608 | KR20167003785 | 20141006 |
| MX2016002343 A1 | 20160610 | MX20160002343 | 20141006 |
| PE01622016 A1 | 20160410 | PE20160000242 | 20141006 |
| PH2016500323 A | 20160516 | PH20160500323 | 20160218 |
| US2015098298 AA | 20150409 | US20140507180 | 20141006 |
| US2015098299 AA | 20150409 | US20130047954 | 20131007 |
| WO15054153 A2 | 20150416 | WO2014US59345 | 20141006 |
| WO15054153 A3 | 20151001 | WO2014US59345 | 20141006 |

**Probable Assignee:** CAPBRAN HOLDINGS LLC

**Assignee(s):**(std)**:** CAPBRAN HOLDINGS LLC ; HOMELAND HOUSEWARES LLC

**Assignee(s):** JPMORGAN CHASE BANK NATIONAL ASSOCIATION ; SAPIRE COLIN

**Inventor(s):**(std)**:** COLIN SAPIRE ; SAPIRE COLIN

**Agent(s):** BALDWINS INTELLECTUAL PROPERTY; FINLAYSON AND SINGLEHURST; JOHANSSON AND LANGLOIS LTDA; MARGARITA CASTELLANOS ABONDANO; HELLMICH WOLFGANG; TROJAN R JOSEPH

**Designated states:** AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

**International class (IPC 8–9):** A47J A47J43/046 A47J43/07 A47J43/27 A47J44/02 B01F13/04 B01F15/06 B01F7/16 B1F13/04 C07D213/34 C7D213/34 (Advanced/Invention); A47J B01F (Subclass/Invention)

**CPC:** A47J43/0716 A47J43/0766 A47J43/0772 A47J43/046 A47J43/0722 A47J43/0777 A47J43/27

**US class:** 366/144 366/205

Classification Explorer

**Cited documents:** WO14134600 A1, US7938574 BB, US7371004 BA, US7318666 BA, US7063009 BB, US7018091 BB, US6962432 BB, US6854875 BB, US6629492 BA, US6609821 BB, US6564679 BA, US6513967 BB, US6402365 BA, US6283625 BB, US5882113 A,

US5380086 A, US4741482 A, US4723719 A, US4487509 A, US3901484 A, US3603364 A, US2913230 A, US2794627 A, US2012213029 AA, US2012018561 AA, US2011248108 AA, US2011013478 AA, US2009084274 AA, US2008221739 AA, US2008198688 AA, US2006198241 AA, US2006007779 AA, US2004100862 AA, US2004042337 AA, US2002141286 AA,

**Forward Citations:** USD783355,

**Abstract:**
Source: US2015098298A A food−processing device for blending and mixing food comprises a mixing vessel, a blade holder, and a motor base. The motor is a high power motor. The device has various safety features designed for the high power motor. The blade holder comprises a safety mechanism that prevents the motor base from operating without the mixing vessel covering the blade. The mixing vessel also contains emitters that interact with detectors on the motor base that can allow a user to select an alternate blend speed according to the mixing vessel that is attached.

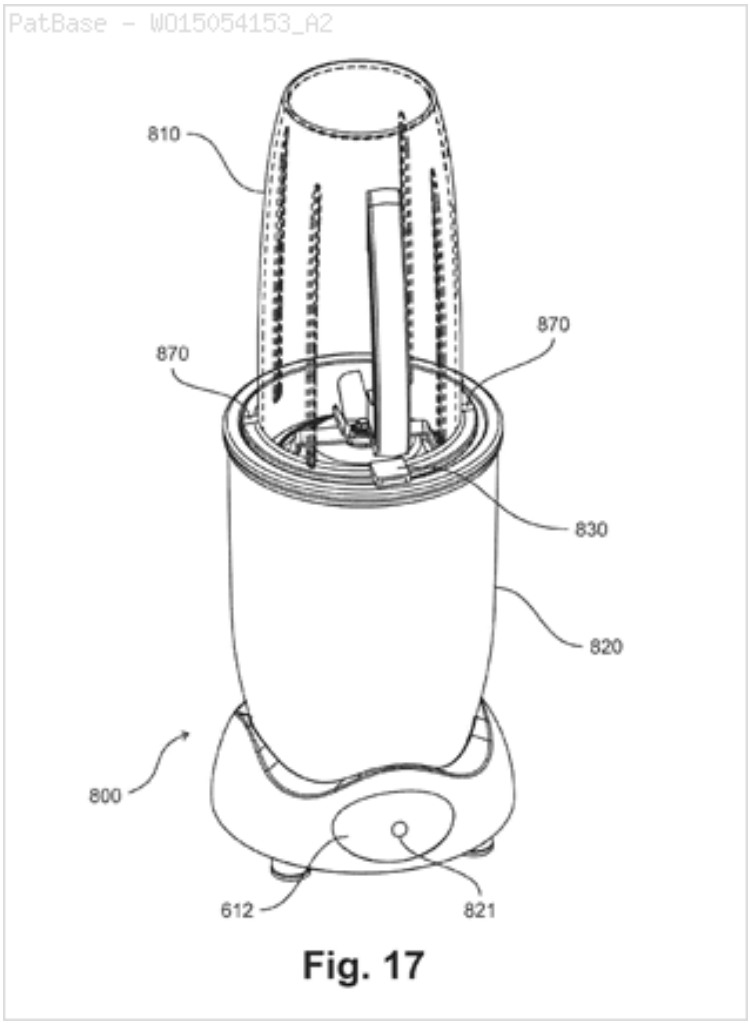



Fig. 17

0) US5667107A – COVER AND STAND FOR SQUEEZE CONTAINER WITH BOTT...

**14) Family number: 13224141** (US5667107A) © PatBase

**Title:** Cover and stand for squeeze container with bottom outlet for dispensing viscous fluids

**Priority:** US19910728204 19910710 US19940203524 19940228 US19970869616 19970605 US19940297707 19940829

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| US5667107 A | 19970916 | US19940297707 | 19940829 |
| US8087547 BA | 20120103 | US19970869616 | 19970605 |

**Probable Assignee:** LINDSEY WILLIAM J

**Assignee(s):**(std)**:** LINDSEY WILLIAM J

**Inventor(s):**(std)**:** LINDSEY WILLIAM J

**International class** (IPC 8–9)**:** B65D23/00 B65D35/56 B67D7/06 (Advanced/Invention)

**International class** (IPC 1–7)**:** B67D5/64

**CPC:** B65D23/003 B65D35/56

**European class:** B65D23/00D B65D35/56

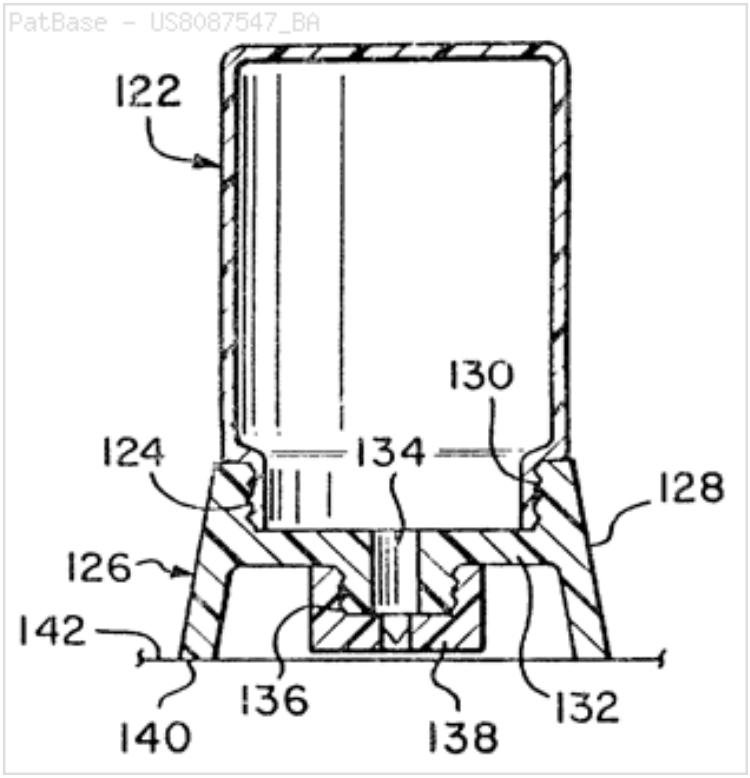
**US class:** 222/1 222/173 222/181.2 222/184 222/185.1 222/212 222/213 222/490 222/494 222/556

Classification Explorer

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**Forward Citations:** WO12177623, US9598209, US9586740, US9527634, US9522405, US9162794, US8960502, US8950608, US8939326, US8844767, US8783519, US8567620, US8365967, US8286834, US8087547, US7621425, US7316332, US6880730, US6705492, US6689279, US5901490, US5749497, US2016152318, US2015313419, US2015165460, US2014326752, US2014231452, US2014008367, US2013087471, US2012312839, US2011297006, US2011094989, US2011068127, US2010314414, US2008230560, US2007246485, US2006231572, US2005124945, US2005051564, US2003146249, GB2434135, GB2434135, DE202008001326, DE10043958,

**Abstract:**
Source: US5667107A The squeeze container is made of a flexible material and is configured to store and dispense viscous fluid. The squeeze container is fitted with an automatic dispensing nozzle which allows flow when the container is squeezed and cuts off flow when the squeezing forces are removed. A stand is associated with the squeeze container, designed to hold the container in the nozzle down position. The stand may serve as a cover to protect the material before dispensing. The container may have a refill aperture and cap as well as a suspension device incorporated therein.



0) US2004256484A – APPARATUS FOR SPRAYING LIQUIDS, AND DISPOSABLE ...

**15) Family number: 12707522** (US2004256484A) © PatBase

**Title:** APPARATUS FOR SPRAYING LIQUIDS, AND DISPOSABLE CONTAINERS AND LINERS SUITABLE FOR USE THEREWITH

**Priority:**

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| CA19982277096 | 19980114 | CA19982569369 | 19980114 | CA19982660187 | 19980114 |
| EP20050020408 | 19980114 | EP20040002190 | 19980114 | EP19980901823 | 19980114 |
| EP19980901823 | 19980730 | CA20092569369 | 20090424 | EP20050010707 | 19980114 |
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| US20070932511 | 20071031 | US20090401637 | 20090311 | US20060277298 | 20060323 |
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| Publication number | Publication date | Application number | Application date |
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| US9211553 BB | 20151215 | US20140554927 | 20141126 | |
| WO9832539 A1 | 19980730 | WO1998US00796 | 19980114 | |

**Probable Assignee:** 3M COMPANY

**Assignee(s):**(std)**:** 3M CO ST PAUL ; DOUGLAS MALCOLM F ; BUTLER ALAN F ; BASTOW DAVID R ; 3M INNOVATIVE PROPERTIES CO ; 3M INNOVATIVE PROPERTIVES CO ; MINNESOTA MINING AND MFG ; JOSEPH STEPHEN C P ; SALHUS JERRY E ; HARTFEL MARGARET E ; 3M CO N D GES D STAATES D ; 3M COMPANY N D GES D STAATES D ; 3M COMPANY ST PAUL ; HARTFEL MARGARET A

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**Inventor(s):**(std)**:** BASTOW DAVID ; BASTOW DAVID R ; BASTOW R ; BUTLER A F ; BUTLER ALAN ; BUTLER ALAN F ; BUTLER F ; BUTTLER ALAN F ; DOUGLAS F ; DOUGLAS M F ; DOUGLAS MALCOLM ; DOUGLAS MALCOLM F ; HARTFEL E ; HARTFEL MARGARET ; HARTFEL MARGARET A ; HARTFEL MARGARET E ; JOSEPH C ; JOSEPH S C P ; JOSEPH STEPHEN ; JOSEPH STEPHEN C P ; SALHUS E ; SALHUS JEROME E ; SALHUS JERRY ; SALHUS JERRY E ; P JOSEPH STEPHEN C

**Inventor(s):** S C P JOSEPH ; SALHUS JERRY E BLOOMINGTON ; SALHUS JERRY E ST PAUL ; SCP JOSEPH ; JOSEPH STEPHEN C P ST PAUL ; JOSEPH STEPHEN CP ; M F DOUGLAS ; MF DOUGLAS ; JOSEPH STEPHEN C ; HARTFEL MARGARET E ST PAUL ; DOUGLAS MALCOLM F ST PAUL ; BUTLER ALAN F ST PAUL ; BASTOW DAVID R ST PAUL ; A F BUTLER ; AF BUTLER

**Agent(s):** SMART AND BIGGAR; WIGHTMAN DAVID ALEXANDER; Vossius Partner; WIGHTMAN DAVID ALEXANDER ET AL; DE ELZABURU ALBERTO; 3M INNOVATIVE PROPERTIES COMPANY; 3M INNOVATIVE PROPERTIES CO; STEWART PAMELA L; PAMELA L; STEVEN E; ALEKSANDER

**Designated states:** AT BE CA CH CN DE DK ES FI FR GB GR IE IT JP KR LI LU MC NL PL PT SE US

**International class (IPC 8–9):** A01G25/14 A62C13/62 A62C13/66 A62C5/02 B01D35/02 B01D35/28 B05B11/04 B05B15/00 B05B15/06 B05B17/00 B05B17/04 B05B7/02 B05B7/24 B05B7/30 B05B9/00 B05B9/01 B05C11/10 B29C51/08 B44D3/12 B65D1/32 B65D25/14 B65D25/16 F28D7/10 H01S3/036 (Advanced/Invention);
B05B7/24 B29C51/10 B29K23/00 (Advanced/Non–invention);
B05B15/00 B05B7/24 B05C11/10 B29C51/08 F28D7/10 H01S3/036 (Core/Invention);
B29C51/10 (Core/Non–invention);
B05B (Subclass/Invention)

**International class (IPC 1–7):** B05B15/06 B05B7/24 B05B7/30 B05B9/08

**CPC:** B29C51/08 B29C51/10 B29C2791/006 B29C2791/007 B29K2023/0633 Y10S239/14 B01D35/02 B01D35/28 B05B7/2481 B05B15/008 B05B7/247 B05B7/2408 F28D7/106 B05B15/061 B05B7/24 B05B7/2478

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**US class:** 1/1 141/2 206/216 220/495.02 220/495.06 222/105 239/1 239/11 239/11P 239/11S 239/1P 239/302 239/302P 239/302S 239/309 239/309S 239/318 239/327 239/327S 239/328 239/328S 239/329 239/337 239/345 239/346 239/346P 239/375 239/376 239/377 239/378

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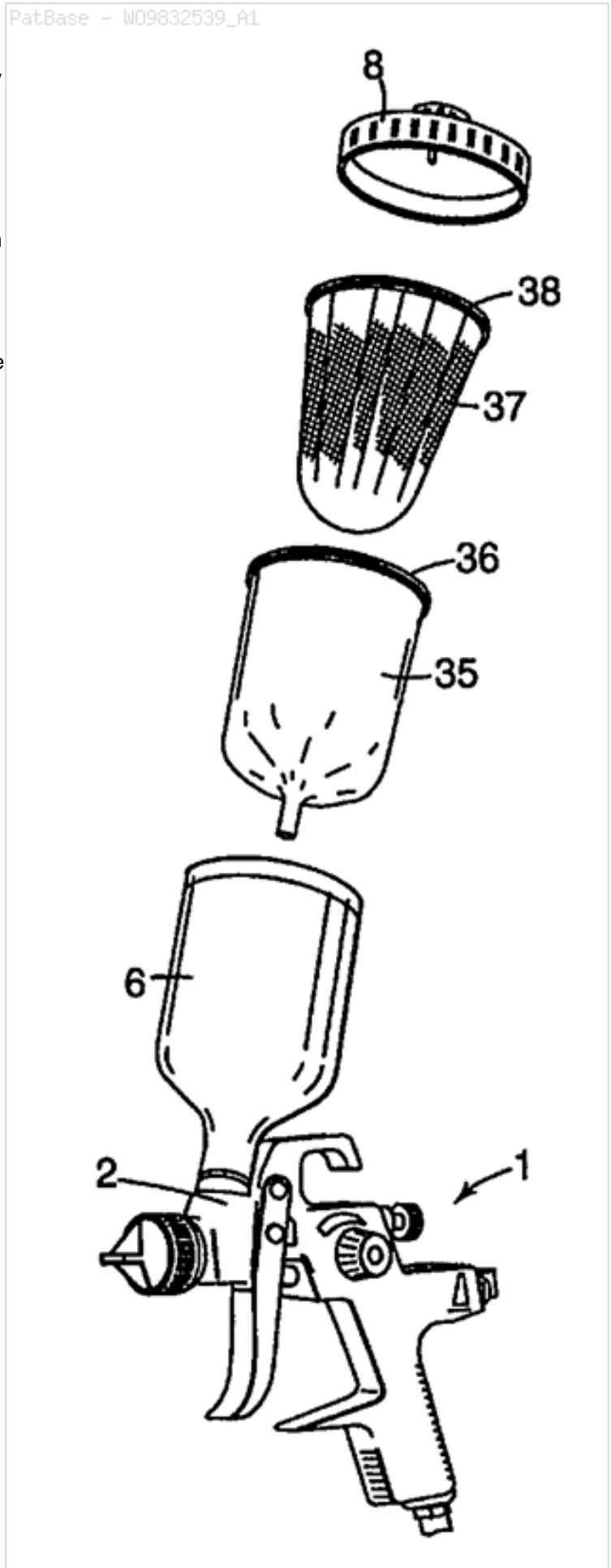
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**Abstract:**
Source: US2004256484A A spray gun (1) has a fluid reservoir (11) which contains a removable liner (13). The liner (13), which may be thermo/vacuum–formed from a plastic material, is a close fit within the interior of the reservoir and collapses as fluid is withdrawn from within the liner during operation of the gun. Preferably, the liner has a comparatively–rigid base and is capable of standing, unsupported, outside the reservoir. The side walls of the liner are preferably thin in comparison to the base and can be collapsed for disposal of the liner. The reservoir (11) has a removable lid (15) and is capable of standing, inverted, on its own so that it can be filled with fluid. The lid (15) also functions to secure the liner (13) in the reservoir and, at the end of a spraying operation, the lid (15) and the liner (13) are removed together from the reservoir (11) and discarded, thereby simplifying the cleaning of the spray gun.



**16) Family number: 42382569** (WO06137954A1) © PatBase

**Title:** POLYESTER COMPOSITIONS CONTAINING LOW AMOUNTS OF CYCLOBUTANEDIOL AND ARTICLES MADE THEREFROM

**Priority:**

US20050691567P 20050617 US20050731389P 20051028 US20050750547P 20051215
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| AU2006262854 AA | 20070104 | AU20060262854 | 20060330 |
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**Assignee(s):** EASTMAN CHEMICAL CO ; EASTMAN CHEMICAL COMPANY

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EMMETT DUDLEY CRAWFORD ; GARY WAYNE CONNELL ; DAVID SCOTT PORTER ; DOUGLAS STEPHEN MCWILLIAMS ; DOUGLAS STEPHENS MCWILLIAMS

**Agent(s):** PHILLIPS ORMONDE FITZPATRICK; RICKER MATHIAS

**Designated states:** AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LC LI LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MW MX MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG UZ VC VN YU ZA ZM ZW

**International class (IPC 8–9):** A01G9/14 A47G19/00 A47J47/00 A61J9/00 A61L27/00 A61M1/00 A61M1/02 A61M1/14 A61M1/36 B32B27/36 B65D1/02 C08G63/00 C08G63/16 C08G63/18 C08G63/183 C08G63/199 C08G63/81 C08G67/02 C08J5/00 C08J5/18 C08L67/00 C08L67/02 C08L67/03 C09K19/00 E01H1/12 E01H1/14 E04B2/00 E04D13/03 E04H15/00 G02B1/04 G02B5/128 G02F1/1333 G07F11/00 G09F13/02 G09F7/18 G09F9/33 G11B7/24 (Advanced/Invention);
A61J9/00 (Advanced/Non–invention);
A01G9/14 A47G19/00 A47J47/00 A61J9/00 A61L27/00 A61M1/00 A61M1/02 A61M1/14 A61M1/36 B32B27/36 B65D1/02 C08G63/00 C08G67/00 C08J5/00 C08J5/18 C08L67/00 C09K19/00 E01H1/00 E04B2/00 E04D13/03 E04H15/00 G02B1/04 G02B5/12 G02F1/13 G07F11/00 G09F13/00 G09F7/18 G09F9/33 G11B7/24 (Core/Invention);
A61J9/00 (Core/Non–invention)

**International class (IPC 1–7):** C08G63/199 C08L67/02

**CPC:** A01G9/1438 A47F5/00 A61J17/00 A61M1/16 B01D61/30 B29B2911/14986 B29C49/00 B29K2067/00 B29L2031/7542 B32B17/10018 B32B27/36 B65D1/0207 C08J5/18 C08J7/047 C08J7/123 C08J2367/00 C08J2367/02 C08J2483/00 C08K3/32 C08K5/521 C08K2201/014 C08L67/02 C08L69/00 C08L101/00 E01F8/0005 E04D13/03 G02B1/105 G02B5/3083 Y10T428/1352 Y10T428/139 Y10T428/1397 Y10T428/161 Y10T428/162 Y10T428/24107 Y10T428/24479 Y10T428/24942 Y10T428/31504 Y10T428/31507 Y10T428/31663 Y10T428/31786 G02F1/133606 C08G63/183 B65D23/10 B65D25/00 B65D43/00 C08G63/199 C09D167/02 G02B1/10

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**Abstract:**
Described as one aspect of the invention are polyesters containing (a) a dicarboxylic acid component having from 70 to 100 mole percent of terephthalic acid residues and up to 30 mole percent of aromatic dicarboxylic acid residues or aliphatic dicarboxylic acid residues; and (b) a glycol component having from 11 to 25 mole percent of 2,2,4,4–tetramethyl–1,3–cyclobutanediol residues, and 75 to 89 mole percent of 1,4–cyclohexanedimethanol residues; wherein the total mole percent of the dicarboxylic acid component is 100 mole percent, and the total mole percent of the glycol component is 100 mole percent. The polyesters may be manufactured into articles.

PatBase - WO07001575_A1



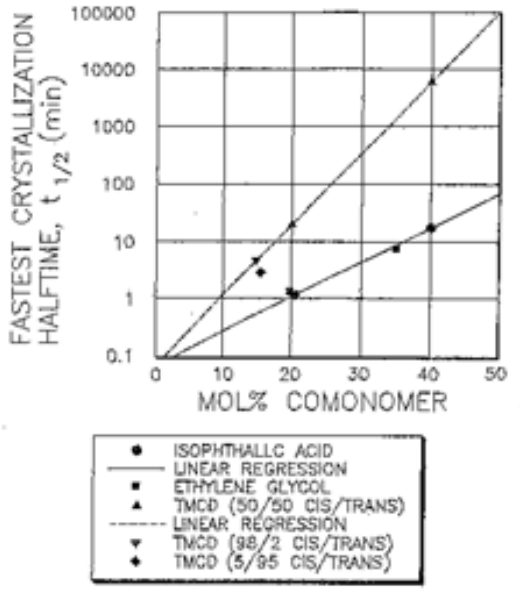



*Fig. 1*

**17) Family number: 46871909** (EP1614470A2) © PatBase

**Title:** AUTOMATED DIAGNOSTIC ANALYZER

**Priority:** EP19990920156 19990430 US19950392798P 19950501 US19980083927P 19980501

**Family:**

| Publication number | Publication date | Application number | Application date |
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| EP1614470 A2 | 20060111 | EP20050015156 | 19990430 |
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| EP1614474 B1 | 20070815 | EP20050019228 | 19990430 |
| EP1614475 A2 | 20060111 | EP20050019229 | 19990430 |
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| EP1614475 B1 | 20070530 | EP20050019229 | 19990430 |
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| EP1623764 B1 | 20090225 | EP20050077602 | 19990430 |
| ES2349547 T3 | 20110104 | ES20050019225T | 19990430 |

**Probable Assignee:** GEN PROBE INC

**Assignee(s):**(std)**:** GEN PROBE INC ; GEN PROBE INC SAN DIEGO

**Inventor(s):**(std)**:** AMMANN KELLY G ; BURNS RALPH E ; HANSBERRY ERNEST V ; HORNER GLENN A ; JAKUB CHERYL A ; KLING JOHN E ; NIEGLOS DONALD J ; SCHNEIDER ROBERT E ; SMITH ROBERT J

**Agent(s):** FRHRSCHENCK ZU SCHWEINSBERG ELARD; VIERING JENTSCHURA AND PARTNER

**Designated states:** AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MK NL PL PT RO SE SI SK TR

**International class** (IPC 8–9)**:** B01F15/00 B01F9/00 B01L7/00 B01L99/00 C12M1/00 C12M1/34 C12M1/36 C12P19/34 C12Q1/68 G01N21/76 G01N35/00 G01N35/02 (Advanced/Invention); G01N35/04 G01N35/10 (Advanced/Non–invention)

**International class** (IPC 1–7)**:** C12M1/00 C12M1/34 C12Q1/68 G01N33/50 G01N33/543 G01N35/00 G01N35/04 G01N35/10

**CPC:** C12Q2537/10 C12Q1/6832 B01F9/0001 B01F9/0014 B01F9/0021 B01F2009/0074 B01L7/52 B01L7/5255 B01L9/06 B01L2200/147 B01L2300/1822 B01L2300/1827 B03C1/282 B03C1/288 B03C1/30 B03C2201/26 G01N35/0098 G01N35/0099 G01N35/025 G01N35/1065 G01N2035/00356 G01N2035/00524 G01N2035/0437 G01N2035/0455 G01N2035/103 Y10T29/53657 Y10T29/53683 Y10T29/53843 Y10T156/1105 Y10T156/1906 Y10T436/11 Y10T436/2575 Y10T436/111666 Y10T436/113332 Y10T436/114998 Y10T436/119163 C12Q1/6834 C12Q1/6813

**European class:** B01F9/00B B01F9/00G B01F9/00G2C B01L7/00D B01L7/00D2B B01L7/52 B01L7/5255 B03C1/28B B03C1/28K B03C1/30 G01N35/00M G01N35/02C L01F9/00Y2G10 L01L200/14C6 L01L300/18A6 L01L300/18A8 L01L7/52 L01L9/06 L03C201/26

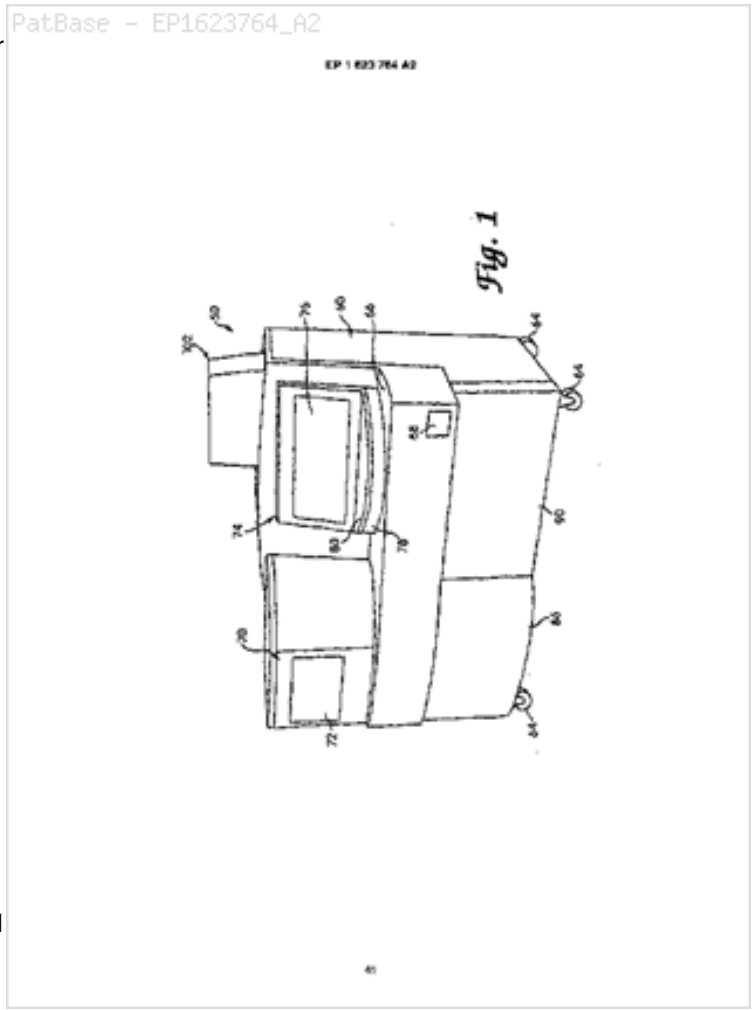
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Classification Explorer

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**Forward Citations:** WO15072941, WO08043463, WO08012104, WO08012104, US9598723, US9519000, US9506943, US9482684, US9446418, US9410904, US9285382, US9274132, US9150908, US9140715, US9046506, US9046455, US8996320, US8973736, US8962308, US8956570, US8932541, US8840848, US8327724, JP2014014374, EP3034617, EP2423688, DE102012206239, DE102008009920, DE102006049347, CN104271765, CN104271765, CN104190344, CN104190344, CN103718012, CN102753978, CN102753978, CN102427885, CN101501503, AU2007278425,

**Abstract:**
Source: EP1614470A2 An automated analyzer for performing multiple diagnostic assays simultaneously includes multiple stations, or modules, in which discrete aspects of the assay are performed on fluid samples contained in reaction receptacles. The analyzer includes stations for automatically preparing a specimen sample, incubating the sample at prescribed temperatures for prescribed periods, preforming an analyte isolation procedure, and ascertaining the presence of a target analyte. An automated receptacle transporting system moves the reaction receptacles from one station to the next. The analyzer further includes devices for carrying a plurality of specimen tubes and disposable pipette tips in a machine−accessible manner, a device for agitating containers of target capture reagents comprising suspensions of solid support material and for presenting the containers for machine access thereto, and a device for holding containers of reagents in a temperature controlled environment and presenting the containers for machine access thereto. A method for performing an automated diagnostic assay includes an automated process for isolating and amplifying a target analyte. The process is performed by automatically moving each of a plurality of reaction receptacles containing a solid support material and a fluid sample between stations for incubating the contents of the reaction receptacle and for separating the target analyte bound to the solid support from the fluid sample. An amplification reagent is added to the separated analyte after the analyte separation step and before a final incubation step.



0) US2001009128A – ROTISSERIE OVEN HAVING A HEAT SHIELD

**18) Family number: 28328965** (US2001009128A) © PatBase

**Title:** ROTISSERIE OVEN HAVING A HEAT SHIELD

**Priority:**

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| Publication number | Publication date | Application number | Application date |
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| US7878111 BB | 20110201 | US20080025530 | 20080204 | |
| US8017167 BB | 20110913 | US20090401395 | 20090310 | |

**Probable Assignee:** RONCO HOLDINGS INC

**Assignee(s):**(std)**:** POPEIL RON ; RONCO CORP ; RONCO ACQUISITION CORP ; ADVANTAGE PARTNERS ; ADVANTAGE PARTNERS IP LLC ; ADVANTAGE PARTNERS LLC ; BACKUS ALAN L ; RONCO HOLDING INC ; RONCO MARKETING CORP

**Assignee(s):** RONCO HOLDINGS INC ; CROSSROADS FINANCIAL LLC ; ALAN L BACKUS ; KALLINA CORP ; LAURUS MASTER FUND LTD ; ROMCO MARKETING CORP ; LV

ADMINISTRATIVE SERVICES INC ; POPEIL RONALD M ; RON POPEIL ; RONCO AQUISITION LLC ; LV ADMINISTRATIVE SERVICES AGENT AS

**Inventor(s):**(std) ALAN L BACKUS ; BACKUS ALAN L ; POPEIL RON ; POPEIL RONALD M ; RON POPEIL

**Inventor(s):** POPEIL RONALD ; BACKUS ALAN

**Agent(s):** FB RICE; FETHERSTONHAUGH AND CO; JEFFER MANGELS BUTLER AND MARMARO LLP; CONNOLLY BOVE LODGE AND HUTZ LLP; JEFFER MANGSIS BUTLER AND MARMARO LLP

**Designated states:** AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

**International class** (IPC 8–9): A21B1/00 A21B1/22 A21B2/00 A21B3/00 A22C7/00 A23L1/01 A23L5/10 A23P1/00 A47J36/06 A47J37/00 A47J37/04 A47J37/06 A47J37/07 A47J43/18 B65D25/26 F27D11/02 F27D3/12 (Advanced/Invention);
A47J36/06 A47J37/07 F24C15/16 (Advanced/Non–invention);
A47J37/04 A47J37/06 (Core/Invention);
F24C15/16 (Core/Non–invention)

**International class** (IPC 1–7): A22C7/00 A23L1/00 A23P1/00 A47J27/00 A47J27/62 A47J37/00 A47J37/04 A47J37/06 A47J37/07 A47J43/18

**CPC:** Y10S220/912 A47J37/0629 A47J37/0664 A47J37/0641 A47J36/06 A47J37/041 A47J37/042 A47J37/043 A47J37/047 A47J37/0623 A47J37/0635 A47J37/0745 A47J43/18

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**US class:** 126/190 126/194 126/198 126/273.5 126/275E 219/403 219/405 219/411 220/326 220/573.1 220/573.100P 220/655 220/655S 220/912 426/241 426/243 426/523 426/523S 99/326 99/326P 99/327 99/331 99/331S 99/332 99/335 99/339 99/349 99/357 99/357S 99/395 99/419 99/419P 99/419S 99/421 99/421.00H 99/421.00HP 99/421.00HS 99/421.00R 99/421.00RS 99/421H 99/421HH 99/421HV 99/421P 99/421R 99/421V 99/427 99/427P 99/427S 99/447 993/270 993/490 993/950 994/210R

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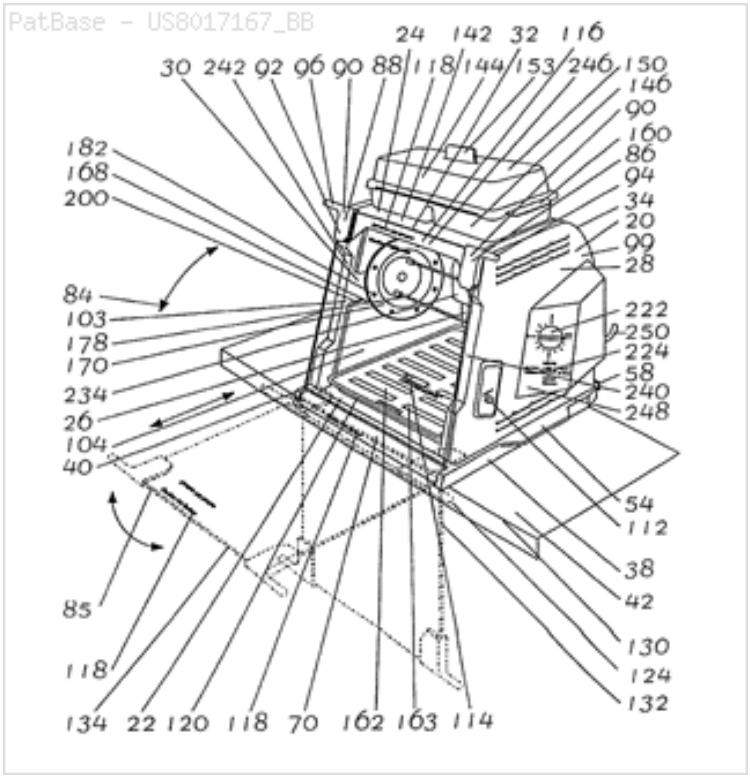
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**Abstract:**
Source: US2001009128A Enclosed rotisserie with added convenience, including a countertop resting box−like enclosure housing a safety rear mounted heating element and a power rotated dual rod spit assembly. The gear driven spit assembly may be easily inserted and removed straight into and out of the enclosure without need for angling or coupling the assembly to a power drive socket. The spit assembly may also be mounted at various distances from the heating element to decrease cooking times. The open front of the enclosure is from time to time covered by an inclined glass panel door which may be opened in various ways to facilitate food insertion into and removal from the enclosure, and which may be easily removed for cleaning or other purposes. The embodiment's design makes efficient use of valuable counter space by recessing back and raising off the countertop its controls. A contained light as well as room light emitted through the inclined glass door illuminate the enclosure's interior to make the rotisserie cooking into a taste tempting show. Two countertop supported sizes for the embodiment are suggested, one for larger families and entertaining, and the other for small families and singles. Cooking times are decreased and manufacture simplified by the embodiment heating element remaining on constantly during the cooking process. Maintenance is minimized by various embodiment parts being removable for cleaning including a cleaning shield located behind the heating element, the glass door, and a drip pan with slotted cover. A variety of foods may be cooked using the spit and accessories that attach to the spit. Such accessories include wire baskets and a rotating stir fryer. Foods may be cooked on top of the embodiment as well using an included warming tray and an inserted steaming tray with cover. Grease−tight rotisserie/barbecue gloves make food handling easier and safer, as can also be said for a spit support platform which supports the spit assembly for food mounting and carving. Self−rotating kabob rods cook kabobs on all sides evenly and allow for increasing rotisserie capacity by increasing the length of rotating rods available for rotisserie food mounting.



0) US2003231485A – TUBULAR ELECTRO–LUMINESCENT PANEL(S) LIGHT DEVI...

**19) Family number: 28290889** (US2003231485A) © PatBase

**Title:** TUBULAR ELECTRO–LUMINESCENT PANEL(S) LIGHT DEVICE

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**Probable Assignee:** TORMACH LLC

**Assignee(s):**(std)**:** CHIEN TAENG LU ; CHIEN TSENG L ; CHIEN TSENG LU ; TORMACH LLC ; WALLAGE RAYMOND ROGER

**Inventor(s):**(std)**:** CHIEN TAENG LU ; CHIEN TSENG L ; CHIEN TSENG LU ; WALLAGE RAYMOND ROGER

**Inventor(s):** CHIEN TSENG

**Agent(s):** BACON AND THOMAS PLLC; ROBERT

**International class (IPC 8–9):** A41D27/08 A41G1/00 A42B1/24 A43B3/00 A45C15/06 B60Q1/26 B60Q3/02 B60R11/00 B60R13/00 C10G1/00 C12M1/00 C12M1/06 C12M1/12 C12M1/34 C12M3/00 F21K2/00 F21K9/232 F21K99/00 F21L13/00 F21L14/00 F21L4/00 F21L4/02 F21L4/08 F21S10/00 F21S10/02 F21S10/06 F21S2/00 F21S4/00 F21S6/00 F21S8/00 F21S8/08 F21S9/02 F21V1/00 F21V1/10 F21V11/00 F21V13/00 F21V13/02 F21V14/00 F21V14/02 F21V14/06 F21V14/08 F21V15/01 F21V17/00 F21V17/02 F21V19/00 F21V19/02 F21V21/00 F21V21/005 F21V21/08 F21V21/092 F21V21/14 F21V21/22 F21V21/26 F21V21/30 F21V23/00 F21V23/02 F21V23/04 F21V23/06 F21V25/02 F21V29/00 F21V29/502 F21V29/70 F21V3/00 F21V3/02 F21V31/00 F21V33/00 F21V5/00 F21V5/04 F21V7/00 F21V7/04 F21V8/00 F21V9/00 F21V9/16 G01J5/00 G01S3/786 G02B27/22 G02F1/13 G02F1/1335 G02F1/13357 G03B1/00 G03B15/03 G03B19/18 G03B21/00 G03B21/14 G03B21/20 G03B23/00 G03B29/00 G03B3/00 G03H1/22 G04B19/04 G04B19/30 G04B37/12 G04B47/00 G04C10/00 G04C19/00 G04G99/00 G06F1/26 G06K9/00 G06T7/00 G06T7/20 G08B13/24 G09F13/18 G09F13/22 G09F23/00 G09F23/04 G09F9/33 G09G3/30 G09G3/32 H01L21/00 H01L21/68 H01R11/00 H01R13/66 H01R25/00 H01R27/00 H01R3/00 H01R33/00 H01R33/009 H01R39/00 H02G3/14 H02J4/00 H02J7/00 H02J7/02 H02M1/00 H04N5/225 H04N5/232 H04N5/235 H04N5/247 H04N5/33 H04N5/76 H04N7/18 H04N9/31 H05B33/08 H05B37/02 H05B41/30 (Advanced/Invention); B60R13/02 F21S2/00 F21V1/10 F21V21/22 F21V21/29 F21V21/30 F21V23/04 F21V23/06 F21V33/00 F21V8/00 F21V9/08 F21W121/00 F21W131/30 F21Y101/00 F21Y101/02 G02B5/32 G09F13/22 H01H9/18 H01J7/44 H01R103/00 H01R13/713 H01R24/76 (Advanced/Non–invention); A42B1/00 A43B3/00 A45C15/00 B60Q3/00 B60R11/00 B60R13/00 F21L4/00 F21S4/00 F21V1/00 F21V17/00 F21V21/00 F21V21/005 F21V21/08 F21V21/14 F21V23/00 F21V23/04 F21V3/00 F21V33/00 G03B21/00 G03B21/14 G09F13/22 H01R3/00 H01R33/00 H05B37/02 (Core/Invention); B60R13/02 G02B5/32 (Core/Non–invention)

**International class (IPC 1–7):** F21V21/00 F21V21/08 F21V9/16 G01D11/28 G02B6/04 H01J1/62 H01R11/00

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Classification Explorer

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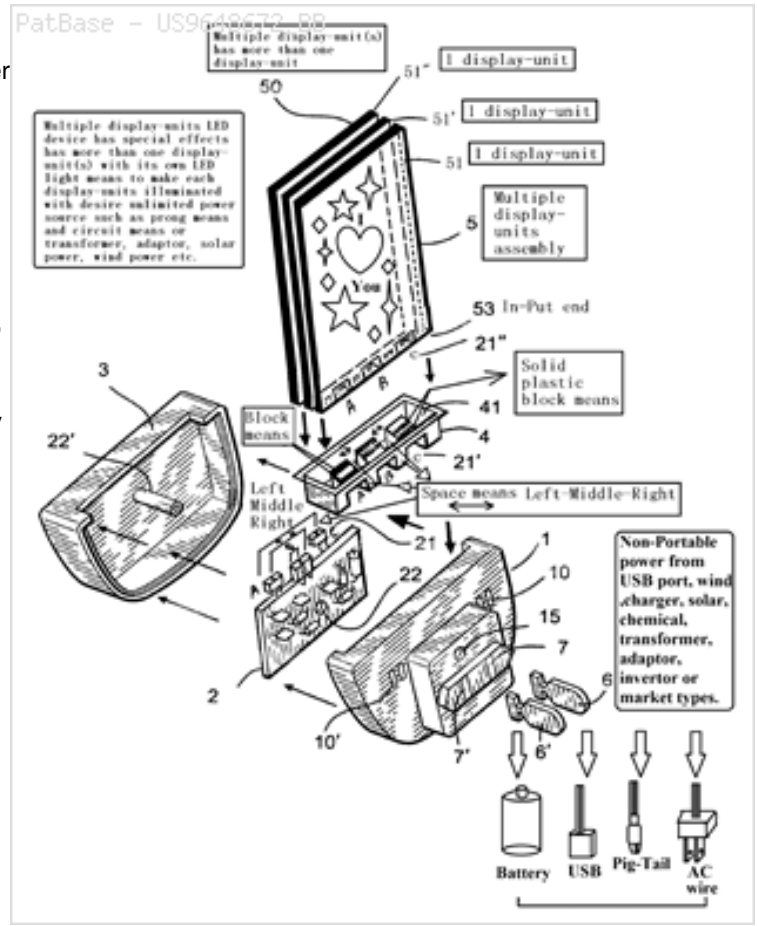
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**Abstract:**
Source: US2003231485A A tubular Electro−Luminescent panel(s) light device offer a desired bending directions with super brightness basing on certain width of panel incorporated proper invertor system. The said panel(s) with much narrow width than tube means to allow the panel(s) can be bend at any direction and angle within the tube means to offer a desired light effects. The said panel(s) can be flat or twisted within the tube means which may have the desired colored, transparency, wall thickness, diameter, shape, length for requirement. The said device may incorporated with non−elastic means, magnetic means, tube holder, sensor means, Integrated circuit to add a lot of desired variety features.



0) US2002053344A – INHALATION DEVICE

**20) Family number: 28257812** (US2002053344A) © PatBase

**Title:** INHALATION DEVICE

**Priority:**

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**International class (IPC 8–9):** A61J1/00 A61J3/00 A61K31/135 A61K31/56 A61K9/72 A61M11/00 A61M13/00 A61M15/00 A61M16/00 A61M16/10 A63H3/00 B05D7/14 B65D75/28 B65D75/34 B65D83/04 B65D83/06 (Advanced/Invention);
A61J1/00 A61J3/00 A61M13/00 B65D75/28 B65D83/04 (Advanced/Non–invention);
A61J1/00 A61J3/00 A61K31/135 A61K31/56 A61K9/72 A61M13/00 A61M15/00 B65D75/28 B65D83/04 (Core/Invention);
A61M (Subclass/Invention)

**International class (IPC 1–7):** A61J1/00 A61J3/00 A61K31/135 A61K31/56 A61K9/72 A61M11/00 A61M11/08 A61M13/00 A61M15/00 A61M15/06 A61M16/00 A61M16/10 A63H3/00 B05B7/14 B05D7/14 B65D73/00 B65D75/00 B65D75/28 B65D75/34 B65D83/04 B65D83/06

**CPC:** A61M15/0043 A61M15/0051 A61M15/0055 A61M15/0068 A61M15/0078 A61M2206/16 A61M15/0045 A61M2202/064 A61M15/0021 A61M15/0075

**European class:** A61M15/00C2 K61M15/00C1S K61M15/00C2B6 K61M15/00C2D2 K61M15/00D4 K61M15/00D4B2E K61M206/16

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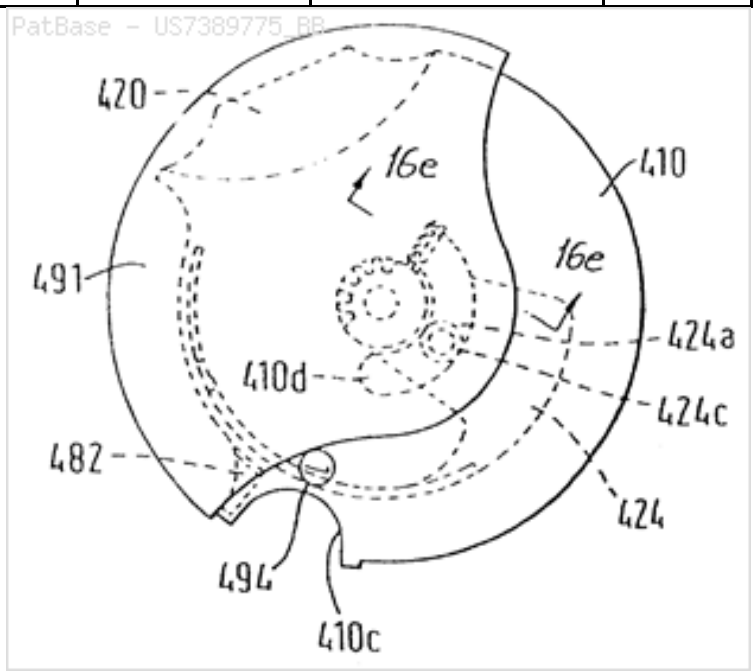
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**Abstract:**
Source: US2002053344A An inhalation device is described for use with a medicament pack in which at least one container for medicament in powder form is defined between two sheets peelably secured to one another. The device comprises means for peeling the sheets apart at an opening station to open the container; and an outlet, communicating with the opened container, through which a user can inhale medicament in powder form from the opened container.

**FDA Data:**

| Application number | Active ingredient | Proprietary name | Applicant | Date of approval |
|---|---|---|---|---|
| 020692 | SALMETEROL XINAFOATE | SEREVENT | GLAXO GRP LTD | Sep 19, 1997 |
| 020692 | SALMETEROL XINAFOATE | SEREVENT | GLAXOSMITHKLINE | Sep 19, 1997 |
| 020833 | FLUTICASONE PROPIONATE | FLOVENT DISKUS 100 | GLAXO GRP LTD | Sep 29, 2000 |
| 020833 | FLUTICASONE PROPIONATE | FLOVENT DISKUS 100 | GLAXOSMITHKLINE | Sep 29, 2000 |
| 020833 | FLUTICASONE PROPIONATE | FLOVENT DISKUS 250 | GLAXO GRP LTD | Sep 29, 2000 |
| 020833 | FLUTICASONE PROPIONATE | FLOVENT DISKUS 250 | GLAXOSMITHKLINE | Sep 29, 2000 |

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|---|---|---|---|---|
| 020833 | FLUTICASONE PROPIONATE | FLOVENT DISKUS 50 | GLAXO GRP LTD | Sep 29, 2000 |
| 020833 | FLUTICASONE PROPIONATE | FLOVENT DISKUS 50 | GLAXOSMITHKLINE | Sep 29, 2000 |
| 021077 | FLUTICASONE PROPIONATE; SALMETEROL XINAFOATE | ADVAIR DISKUS 100/50 | GLAXO GRP LTD | Aug 24, 2000 |
| 021077 | FLUTICASONE PROPIONATE; SALMETEROL XINAFOATE | ADVAIR DISKUS 100/50 | GLAXOSMITHKLINE | Aug 24, 2000 |
| 021077 | FLUTICASONE PROPIONATE; SALMETEROL XINAFOATE | ADVAIR DISKUS 250/50 | GLAXO GRP LTD | Aug 24, 2000 |
| 021077 | FLUTICASONE PROPIONATE; SALMETEROL XINAFOATE | ADVAIR DISKUS 250/50 | GLAXOSMITHKLINE | Aug 24, 2000 |
| 021077 | FLUTICASONE PROPIONATE; SALMETEROL XINAFOATE | ADVAIR DISKUS 500/50 | GLAXO GRP LTD | Aug 24, 2000 |
| 021077 | FLUTICASONE PROPIONATE; SALMETEROL XINAFOATE | ADVAIR DISKUS 500/50 | GLAXOSMITHKLINE | Aug 24, 2000 |
| 203975 | UMECLIDINIUM BROMIDE; VILANTEROL TRIFENATATE | ANORO ELLIPTA | GLAXO GRP LTD | Dec 18, 2013 |
| 203975 | UMECLIDINIUM BROMIDE; VILANTEROL TRIFENATATE | ANORO ELLIPTA | GLAXOSMITHKLINE | Dec 18, 2013 |
| 204275 | FLUTICASONE FUROATE; VILANTEROL TRIFENATATE | BREO ELLIPTA | GLAXO GRP LTD | Apr 30, 2015 |
| 204275 | FLUTICASONE FUROATE; VILANTEROL TRIFENATATE | BREO ELLIPTA | GLAXO GRP LTD | May 10, 2013 |
| 205382 | UMECLIDINIUM BROMIDE | INCRUSE ELLIPTA | GLAXO GRP ENGLAND | Apr 30, 2014 |
| 205625 | FLUTICASONE FUROATE | ARNUITY ELLIPTA | GLAXOSMITHKLINE | Aug 20, 2014 |



0) US2009263782A – REACTION APPARATUS

**21) Family number: 33180025** (US2009263782A) © PatBase

**Title:** REACTION APPARATUS

**Priority:** GB20060010432 20060526 GB20060019128 20060919 GB20070018250 20070529 GB20070018250 20070829 WO2007GB03564 20070918

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| GB200610432 A0 | 20060705 | GB20060010432 | 20060526 |
| GB200619128 A0 | 20061108 | GB20060019128 | 20060919 |
| GB200718250 A0 | 20071031 | GB20070018250 | 20070829 |
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| GB2441833 B2 | 20110810 | GB20060019128 | 20060919 |
| US2009263782 AA | 20091022 | US20090381953 | 20090318 |
| US2012077183 A9 | 20120329 | US20090381953 | 20090318 |
| US8597937 BB | 20131203 | US20090381953 | 20090318 |
| WO07138302 A1 | 20071206 | WO2007GB01977 | 20070529 |
| WO08035074 A2 | 20080327 | WO2007GB03564 | 20070918 |
| WO08035074 A3 | 20080918 | WO2007GB03564 | 20070918 |

**Probable Assignee:** BG RESEARCH LTD

**Assignee(s):**(std)**:** B G RES LTD ; BG RES LTD ; BIOGENE LTD ; EDGE DAVID ; NAZARETH NELSON ; WARD DAVID

**Assignee(s):** BG RESEARCH LTD ; B G RESEARCH LTD

**Inventor(s):**(std)**:** EDGE DAVID ; NAZARETH NELSON ; WARD DAVID

**Inventor(s):** NELSON NAZARETH ; DAVID EDGE ; DAVID WARD

**Agent(s):** J BRUCE HOOFNAGLE; J BRUCE; NAZARETH NELSON

**Designated states:** AE AG AL AM AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

**International class (IPC 8–9):** B01L3/00 B01L7/00 C12M1/00 C12M1/34 C12P19/34 C12Q3/00 G01N21/63 (Advanced/Invention); B01L3/00 B01L7/00 C12M1/00 C12P19/00 C12Q3/00 G01N21/63 (Core/Invention)

**CPC:** G01N21/0332 B01L3/5082 B01L3/50851 B01L2200/147 B01L2300/042 B01L2300/0654 B01L2300/0663 B01L2300/0829 B01L2300/0887 B01L2300/16 B01L2300/1822 B01L2300/1827 G01N21/253 G01N21/6452 G01N2021/0382 G01N2201/1211 B01L7/52 B01L2300/12 B01L2300/185 G01N25/486 G01N2021/0325 G01N2021/6441

**European class:** B01L3/50851 B01L7/52 G01N21/03G G01N21/25B2 G01N21/64P2 G01N25/48B1B L01L200/14C6 L01L3/5082 L01L300/04A2 L01L300/06B6 L01L300/06B8 L01L300/08B12 L01L300/08F L01L300/12 L01L300/16 L01L300/18A6 L01L300/18A8 L01L300/18C4 S01N201/121B S01N21/03F S01N21/03G S01N21/03S2 S01N21/64H7A

**US class:** 435/287.2 435/287.200S 435/3 435/303.1 435/303.100S 435/3P 435/91.2 435/91.200S

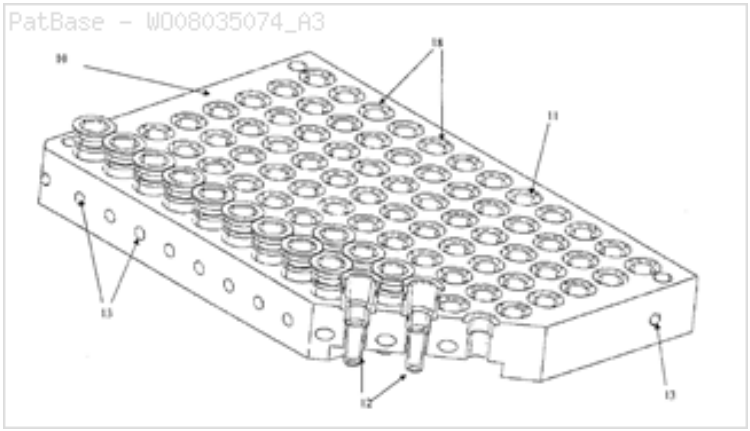
Classification Explorer

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**Forward Citations:** WO17041031, WO16139443, WO15114297, WO15114296, WO15114294, WO13112808, WO12063011, WO10149292, WO10010361, WO09019454, WO09019452, WO09019450, USD724196, US9623415, US9446410, US9426936, US9403236, US9315768,

US9138748, US9040000, US8814427, US2012301367, US2009263581, JP5892709, JP2014504853, JP2013544088, JP2012529896, JP2012239441, GB2501011, GB2474163, GB2474163, GB2457094, GB2441833, GB2441833, EP3103864, EP2338594, DE202011000592, CN103260760, CN102796651, CN102481571,

**Abstract:**
Source: US2009263782A An apparatus 20 for biological or chemical reactions, in particular PCR, includes a heat removal module 22 adapted to receive snugly a reaction vessel 24 in such a manner as to create good thermal conductivity contact between the module and the vessel. The heat removal module 22 is formed of a thermally conductive material having therein a channel 64 adapted for the flow of a coolant liquid. The heat removal module 22 is constructed with an array of receiving stations 62 for the reception of a corresponding array of reaction vessels 24.



0) US2001000830A – UPRIGHT EXTRACTION CLEANING MACHINE

**22) Family number: 42144233** (US2001000830A) © PatBase

**Title:** Upright extraction cleaning machine

**Priority:**

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| GB19990003714 | 19990219 | GB20050015877 | 20050802 | GB20080003581 | 20050802 |
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| US19960017175P | 19960509 | US19960026988P | 19960920 | US19950006665P | 19951113 |
| US19980139963 | 19980825 | US19980009155 | 19980120 | US19960743844 | 19961105 |
| US19980072446 | 19980504 | US19960741746 | 19961105 | US19980133832 | 19980813 |
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| US20030607727 | 20030627 | US20010864847 | 20010524 | US20070931523 | 20071031 |
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| US20020138108 | 20020503 | US20010753349 | 20010102 | US20150921463 | 20151023 |

**Family:**

| Publication number | Publication date | Application number | Application date |
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| US6898820 BB | 20050531 | US20010911228 | 20010723 | |
| US7475712 BB | 20090113 | US20070931523 | 20071031 | |
| US7752705 BB | 20100713 | US20040710776 | 20040802 | |
| US7862623 BA | 20110104 | US20000589973 | 20000608 | |
| USRE39304 E | 20060926 | US20030607727 | 20030627 | |

**Probable Assignee:** BISSELL HOMECARE INC

**Assignee(s):**(std)**:** BISSELL HOMECARE INC ; BISSELL INC

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**Inventor(s):** TIMOTHY E KASEN ; LUKE E KELLY ; MCDOWELL DAVID ; HUFFMAN ERIC ; BLASE LEGAL REPRESENTATIVE BY GLORIA R ; DAVID E MCDOWELL ; ERIC C HUFFMAN ; ERIC J HANSEN ; GARY A KASPER

**Agent(s):** MCGARRY BAIR PC

**International class (IPC 8–9):** A46B9/02 A47L11/03 A47L11/30 A47L11/34 A47L11/40 A47L5/28 A47L5/30 A47L5/32 A47L7/00 A47L9/00 A47L9/02 A47L9/28 B01F15/04 B01F3/08 B01F5/00 B08B5/00 B08B7/04 C11D11/00 C11D3/00 C11D3/39 C11D7/32 F16K31/54 F22B1/28 H05B3/00 (Advanced/Invention); A47L11/00 A47L11/29 A47L5/22 A47L7/00 B01F3/08 C11D11/00 C11D3/00 C11D3/39 C11D7/22 F16K31/44 H05B3/00 (Core/Invention)

**International class (IPC 1–7):** A47L11/20 A47L11/202 A47L11/204 A47L11/30 A47L11/34 A47L5/28 A47L5/34 A47L7/00 A47L9/00 A47L9/06 A47L9/30 A47L9/32 A62C13/62 D06B1/00 F16K17/36 F16K17/36 F16K33/00 F16K33/00

**CPC:** C11D3/0031 C11D3/3947 C11D7/3254 C11D11/0005 C11D3/39 C11D3/3905 C11D3/3917 C11D11/007 A47L11/4061 A47L11/4008 A47L11/4011 A47L11/4019 A47L5/225 A47L7/0023 A47L11/40 A47L11/4005 A47L11/4094 C11D17/049 A47L11/4058 A47L5/28 A47L7/0004 A47L9/0009 A47L9/02 A47L11/03 A47L11/30 A47L11/305 A47L11/4025 A47L11/4036 A47L11/4069 A47L11/4075 A47L11/4091 B01F3/088 B01F5/0077 B01F15/0261 B01F15/0404 Y10T137/88054 A46B9/026 A47L11/4086 A47L5/30 A47L5/32 A47L7/0009 A47L7/0028 A47L7/0038 A47L7/0042 A47L9/0036 A47L11/34 A47L11/4016 A47L11/4041 A47L11/4044 A47L11/4083 A47L11/4088 F16K31/54 F22B1/284 H05B3/00

**European class:** A47L11/03 A47L11/30 A47L11/30B2 A47L11/34 A47L11/40 A47L11/40B2 A47L11/40B4 A47L11/40C A47L11/40D2 A47L11/40D2B A47L11/40D4 A47L11/40F A47L11/40F4

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**US class:** 134/10 134/10S 134/11 134/11P 134/18 137/614.2 15/302 15/320 15/320P 15/321 15/322 15/324 15/324S 15/328 15/332 15/334 15/337 15/339 15/339S 15/352 15/352S 15/353 15/353S 15/355 15/368 15/372 15/372S 15/373 15/373S 15/389 15/391 15/410 15/410S 15/412 15/416 239/304 239/578 68/147 68/148 8/111 8/147 8/147P 8/158 96/406

Classification Explorer

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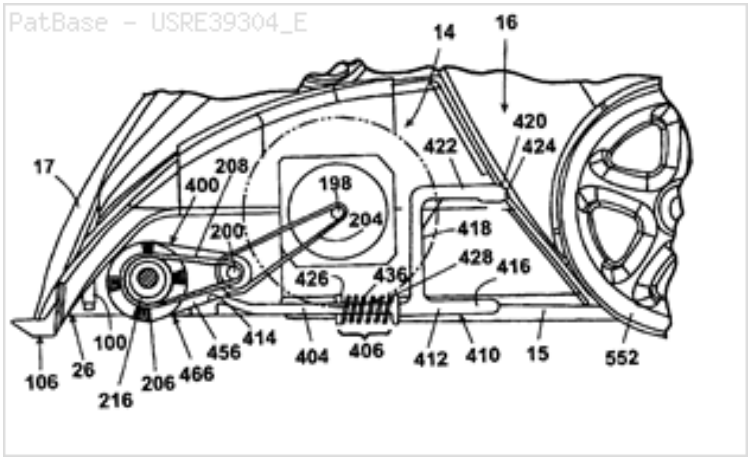
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CN103284652, CN103220958, CN103188981, CN103188980, CN102858470, CN102858470, CN102834037, CN102834037, CN102711577, CN102670138, CN102670138, CN102652656, CN102551596, CN102551596, CN102525352, CN102085081, CN102085081, CN102068218, CN102068218, AU2014255502, AU2013201271, AU2005261482, AU2004216217,

**Abstract:**
Source: US2001000830A A portable surface cleaning apparatus including a base module for movement along a surface, an upright handle pivotally attached to the base module, a liquid dispensing system including a flexible bladder defining a fluid supply chamber for holding a supply of cleaning fluid, a fluid recovery system including a tank on the base module having a fluid recovery chamber for holding recovered fluid and housing the flexible bladder, and a fluid passageway between the fluid supply chamber and the recovery chamber, whereby the recovery chamber is in fluid communication with the fluid supply chamber and the pressure in the flexible bladder is equalized with the pressure in the tank as the cleaning fluid is dispensed from the supply chamber and the dirty liquid is collected in the recovery chamber. In a further embodiment the tank has an outlet opening in a bottom portion thereof and a drain plug is removably mounted in the outlet opening. In another embodiment a lid mounted on the tank defines an expansion chamber having an inlet opening, an outlet passage, and first and second diverters against which the working air flow reverses direction twice between the inlet opening of the expansion chamber and the tank. In another embodiment the working air conduit includes a manual actuator knob having an over−center linkage mechanism connected to a conversion valve for movement between first and second positions and thereby selectively moving the conversion valve between open and closed positions, whereby fluid communication between the tank and the suction nozzle is selectively opened and closed. In a further embodiment, a flow indicator is mounted to the base module and has a visibility window observable to a user and the flow indicator is disposed in the fluid supply conduit and is responsive to the flow of fluid through the fluid supply conduit to visually indicate the flow of fluid through the supply conduit to the user. Another embodiment includes a pump primer connected to the pump and having a housing defining a priming chamber with a valved opening connected to the vacuum source, an inlet opening connected to the fluid supply chamber, and an outlet opening connected to an inlet for the pump. A further embodiment includes a first mechanical connector extending between the motor drive shaft and the pump drive shaft, whereby the motor drives both the agitation brush and the pump. In a further embodiment, the base module includes an upper housing portion and a lower housing portion and an upright handle is pivotably mounted to the rear portion of the base module through at least one bearing for rotatable reception in the housing. In another embodiment, an elevator assembly is reciprocally mounted to the base module and movable in response to movement of the upright handle from an operative position to the upright position for upwardly pivoting a pivot arm mounting an agitation brush.



0) US5554533A – APPARATUS AND METHOD FOR REARING NEMATODES, FUN...

**23) Family number: 8444819** (US5554533A) © PatBase

**Title:** APPARATUS AND METHOD FOR REARING NEMATODES, FUNGI, TISSUE CULTURES AND THE LIKE, AND FOR HARVESTING NEMATODES

**Priority:** AU1990PJ09571 19900411 AU19910077438 19910410 US19950411078 19950327 US19920955899 19921211 WO1991AU00136 19910410

**Family:**

| Publication number | Publication date | Application number | Application date |
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| US5554533 A | 19960910 | US19950411078 | 19950327 |
| WO9115569 A1 | 19911017 | WO1991AU00136 | 19910410 |

**Probable Assignee:** COMMW SCIENT IND RES ORG

**Assignee(s):**(std)**:** COMMW SCIENT IND RES ORG ; COMMW SCIENT AND IND RES ORGANIS

**Assignee(s):** COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANISATION C S I R O CAMPBELL AU ; COMMW SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANISATION ; CROMPTON GRAHAM W ; STANFIELD MICHAEL A ; COMMW SCIENTIFIC AND INDUSTRIAL RESEARCH OR ; COMMW SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANISATION CSIRO ; COMMW SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANISATION CSIRO CAMPBELL AU ; BEDDING ROBIN A ; COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH OR ; COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANISATION ; COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANISATION C S I R O

**Inventor(s):**(std)**:** CROMPTON GRAHAM ; CROMPTON GRAHAM W ; CROMPTON GRAHAM WOODHOUSE ; CROMPTON GRAHAM WOODHOUSE ARRA ; BEDDING ROBIN ; BEDDING ROBIN A ; BEDDING ROBIN ANTHONY ; STANFIELD MICHAEL ; STANFIELD MICHAEL A ; STANFIELD MICHAEL ANTHONY

**Inventor(s):** STANFIELD MICHAEL ANTHONY TRANMERE TAS 7018 AU ; BEDDING ROBIN ANTHONY FLYNN ACT 2615 AU ; CROMPTON GRAHAM WOODHOUSE ARRANMORE ; CROMPTON GRAHAM WOODHOUSE ARRANMORE VIA GRENFELL N ; CROMPTON GRAHAM WOODHOUSE ARRANMORE VIA GRENFELL NSW 2810 AU ; GRAHAM WOODHOUSE CROMPTON ; MICHAEL ANTHONY STANFIELD ; ROBIN ANTHONY BEDDING

**Agent(s):** DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; BERESKIN AND PARR

**Designated states:** AT AU BE CA CH DE DK ES FR GB GR IT JP LI LU NL SE US

**International class (IPC 8–9):** A01K67/033 B65D53/04 C12M1/04 C12M1/16 C12M1/20 C12M1/22 C12N1/00 C12N1/14 (Advanced/Invention); A01K67/00 B65D53/00 C12M1/04 C12M1/16 C12M1/22 C12N1/00 (Core/Invention)

**International class (IPC 1–7):** A01K67/033 A01K67/33 B65D53/04 B65D53/04 C12M1/04 C12M1/04 C12M1/16 C12M1/20 C12M1/22 C12N1/00 C12N1/12 C12N1/14

**CPC:** A01K67/033

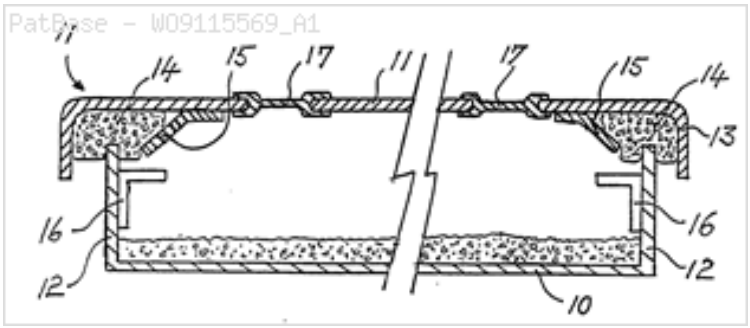
**European class:** A01K67/033 C12M1/22

**US class:** 422/102 422/562 435/252.1 435/288.3 435/305.4

Classification Explorer

**Cited documents:** US5324636 A, US4670398 A, US4358908 A, US4299921 A, US4280002 A, US4121525 A, US3709395 A, US3158553 A, US3055808 A, EP0187167 A1, EP0126390 A2, AU7891582 A1, AU7891581 A1, AU5648880 A1, AU4772585 A1, AU2713088 A1, AU2713058 A1,

**Forward Citations:** WO03014289, WO03014289, US8658422, US6790655, US6532891, US6057145, US6033658, US6033657, US2009253197, US2006288942, US2003044971, EP1183187, EP0856253, EP0811054, CN105109845, CN105109844,

**Abstract:**


Source: US5554533A Entomopathogenic nematodes are cultured in a culture vessel comprising a tray with side walls and an overlapping lid, also with side walls. A gasket of polyether polyurethane foam is positioned around the inside edge of the lid, preferably in a gutter formed by the walls of the lid and inclined flanges attached to the lid. Preferably the lid has apertures in it, closed with resilient seals. Stop members, mounted on the inside faces of the walls of the tray, prevent forced movement of the lid towards the tray when the flanges bear against the stop members, thus enabling the culture vessels to be stacked on each other without over−compression of the foam gasket. A method of rearing nematodes using such a culture vessel involves coating a layer of crumbed foam in the tray with an offal homogenate, closing the culture vessel, autoclaving it, inoculating the coated foam with the appropriate symbiotic bacterium, incubating this bacteria at about 23 DEG C., inoculating the contents of the culture vessel with a monoxenic suspension of nematodes, incubating the nematodes at about 23 DEG C. for a time to enable infective juvenile (J3 stage) nematodes to be produced in large quantities, then harvesting the J3 stage nematodes. A method and apparatus for harvesting nematodes, a vessel for incubating nematodes for use as an inoculum, and a method of separating J3 stage and adult nematodes are also described. The culture vessel can also be used to culture fungi, protozoa, bacteria and tissue cultures.

0) US2010018403A – TEA MAKER

**24) Family number: 41776278** (US2010018403A) © PatBase

**Title:** TEA MAKER

**Priority:** AU20060905896 20061024 AU20060905896P 20061024 AU20070308748 20071024 AU20120200882 20120216 AU20130206538 20130626 AU20160204253 20160622 WO2007AU01621 20071024 CN200780045857 20071024

**Family:**

| Publication number | Publication date | Application number | Application date |
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| AU2007308748 AA | 20080502 | AU20070308748 | 20071024 |
| AU2007308748 BB | 20111208 | AU20070308748 | 20071024 |
| AU2012200882 AA | 20120308 | AU20120200882 | 20120216 |
| AU2012200882 BB | 20130718 | AU20120200882 | 20120216 |
| AU2013206538 AA | 20130711 | AU20130206538 | 20130626 |
| AU2016204253 AA | 20160707 | AU20160204253 | 20160622 |
| AU2016204253 BB | 20170302 | AU20160204253 | 20160622 |
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| CN101557741 B | 20130109 | CN200780045857 | 20071024 |
| CN103006065 A | 20130403 | CN201210540046 | 20071024 |
| CN103006065 B | 20150923 | CN201210540046 | 20071024 |
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| EP2079348 A4 | 20130102 | EP20070815426 | 20071024 |
| EP2079348 B1 | 20150304 | EP20070815426 | 20071024 |
| JP2010507411 T2 | 20100311 | JP20090533612T | 20071024 |
| JP5241725 B2 | 20130717 | JP20090533612T | 20071024 |
| US2010018403 AA | 20100128 | US20070446752 | 20071024 |
| WO08049163 A1 | 20080502 | WO2007AU01621 | 20071024 |

**Probable Assignee:** BREVILLE PTY LTD

**Assignee(s):**(std)**:** BREVILLE R AND D PTY LTD ; HOARE RICHARD ; MACDONALD GRAEME

**Assignee(s):** BREVILLE PTY LIMITED ; BREVILLE PTY LTD

**Inventor(s):**(std)**:** GRAEME MACDONALD ; HOARE RICHARD ; MACDONALD GRAEME ; RICHARD HOARE

**Agent(s):** MOLINS AND CO; MOLINS AND CO PTY LTD; COLES GRAHAM FREDERICK; MICHAEL MOLINS MOLINS AND CO; MOLINS MICHAEL

**Designated states:** AE AG AL AM AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

**International class (IPC 8–9):** A47J31/00 A47J31/047 A47J31/06 A47J31/18 A47J31/20 A47J31/44 A47J31/52 (Advanced/Invention); A47J31/00 A47J31/04 A47J31/06 A47J31/44 (Core/Invention)

**CPC:** A47J31/20 A47J31/0615

**European class:** A47J31/06E A47J31/20

**US class:** 99/281 99/281P 99/299 99/299S 99/323 99/323S

Classification Explorer

**Cited documents:** WO05020767 A1, US793655 A, US7779751 BB, US7745759 BB, US7706671 BB, US7279660 BB, US6964222 BA, US6962104 BA, US6915733 BA, US6543336 BB, US6135010 A, US6082246 A, US6065609 A, US5916351 A, US5635233 A, US5609092 A, US5318791 A, US5112629 A, US5027696 A, US4843954 A, US4757752, US450208 A,

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**Forward Citations:** WO17042247, WO17042246, WO16096958, WO16096955, WO15149999, WO15082911, WO15038809, WO15016800, WO12056377, WO12056371, WO12022181, WO10107867, WO10107867, WO10076478, WO10076476, US9609977, US9173519, US9027464, US9021939, US8584576, US8534186, US8082841, US2016157662, US2014150667, US2013055901, US2012073448, US2011088564, US2011072979, US2009038484, US2008274246, JP2014519941, JP2013540550, GB2520768, FR2939626, EP2446790, EP2446789, EP2446788, DE202011051685, CN104414466, CN104274018, CN104172911, CN104161452, CN103654175, CN103654175, CN103190802, CN103179887, CN103179887, CN102987921, CN102727084, CN102727084,

**Abstract:**
Source: US2010018403A A tea maker comprises a vessel in which is located a conveyor. The conveyor, preferably vertically, transports a carriage. The conveyor and a carriage are surrounded by a tube and are protected from the water in the vessel. An enclosed basket coupled to the carriage. An external user interface allows a user to select brewing parameters such as the type of beverage brewed, the brewing temperature, and the steeping time. The selection is sent to a processor. The processor then encodes the selection into a control data for the heating assembly or the conveyor.

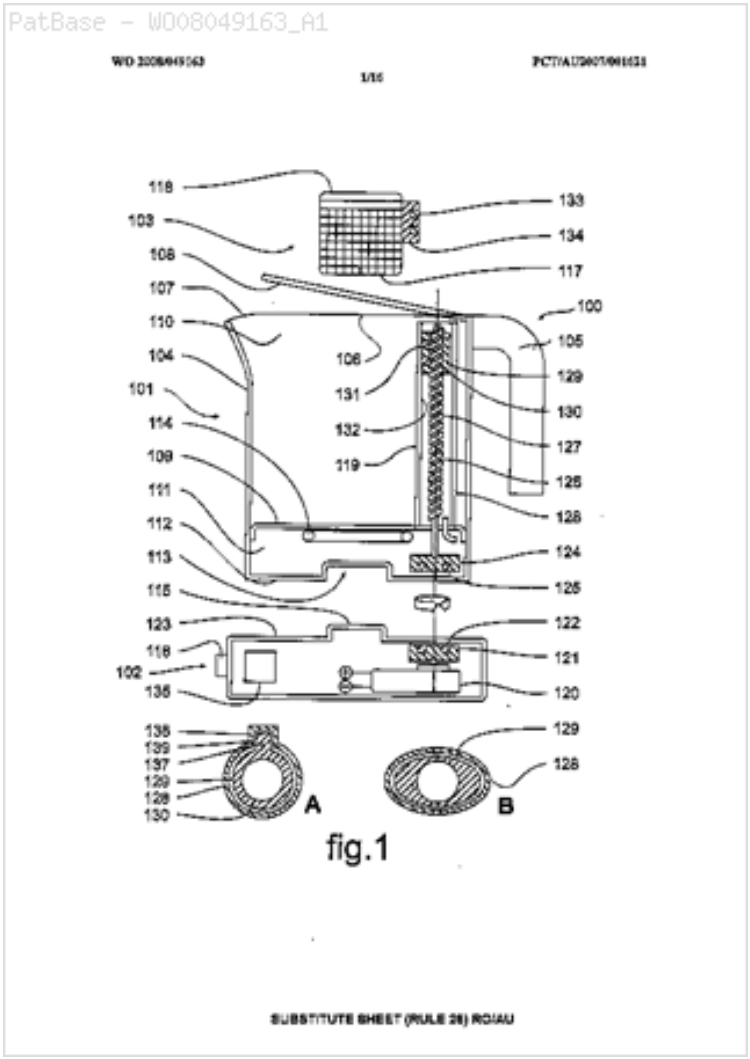


fig.1

**25) Family number: 29580625** (US2007248957A) © PatBase

**Title:** ENCODED SOLID SUPPORTS FOR BIOLOGICAL PROCESSING AND ASSAYS USING SAME

**Priority:**

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|---|---|---|---|---|---|
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| US19950480196 | 19950607 | US19950484504 | 19950607 | US19950484486 | 19950607 |
| US19960723423 | 19960930 | US19960709435 | 19960906 | US19960633410 | 19960610 |
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| US19970826253 | 19970327 | US19960945053 | 19960425 | US19960639813 | 19960402 |
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| US19970857800 | 19970122 | US19970912998 | 19970811 | WO1997US15754 | 19971007 |
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| US20110158302 | 20110610 | US20040011452 | 20041214 | US20110099198 | 20110502 |
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**Family:**

| Publication number | Publication date | Application number | Application date |
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| WO9831732 A2 | 19980723 | WO1998US01295 | 19980122 | |
| WO9831732 A3 | 19981203 | WO1998US01295 | 19980122 | |

**Probable Assignee:** IRORI TECHNOLOGIES INC

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**Designated states:** AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CU CZ DE DK EE ES FI FR GA GB GE GH GM GN GR GW HU ID IE IL IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MC MD MG MK ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT UA UG US UZ VN YU ZW

**International class (IPC 8–9):** B01J19/00 B01L3/00 B01L3/14 C07B61/00 C07H21/00 C07K1/00 C07K1/04 C07K1/13 C07K17/00 C07K17/06 C08J7/16 C12M3/00 C12N11/00 C12N15/09 C12Q1/00 C12Q1/58 C12Q1/68 C12Q1/70 C40B30/00 C40B30/04 C40B40/06 C40B40/10 C40B50/14 C40B50/16 C40B50/18 C40B60/06 C40B60/08 C40B60/14 C40B70/00 G01N1/00 G01N15/14 G01N21/64 G01N31/00 G01N33/00 G01N33/48 G01N33/50 G01N33/53 G01N33/542 G01N33/543 G01N33/566 G01N35/00 G01N37/00 G06F17/30 G06F19/00 G06K19/00 G06K19/06 G06K7/10 G08C19/00 G08C23/04 G09F3/00 G11C13/02 G11C13/04 G11C17/00 (Advanced/Invention); B01L3/14 C07B61/00 C12N15/09 C12Q1/68 C12Q1/70 C40B40/06 C40B40/10 C40B50/14 C40B60/14 C40B70/00 G01N15/14 G01N33/53 G01N33/566 G01N35/00 G01N37/00 G08C19/00 (Advanced/Non–invention); B01J19/00 B01L3/00 C07B61/00 C07H21/00 C07K1/00 C07K17/00 C12M3/00 C12N15/09 C12Q1/68 C12Q1/70 G01N33/53 G01N33/566 G01N35/00 G01N37/00 G06F19/00 G08C19/00 G08C23/00 G11C13/02 (Core/Invention); C40B40/04 C40B60/14 C40B70/00 G01N15/14 G01N35/00 (Core/Non–invention)

**International class (IPC 1–7):** A61K38/00 B01J19/00 B01L3/00 B01L3/14 B07C5/36 C07B61/00 C07C255/41 C07C255/60 C07C323/32 C07D213/40 C07D307/52 C07D317/58 C07D333/20 C07H21/00 C07H21/04 C07K1/00 C07K1/04 C07K1/13 C07K14/00 C07K16/00 C07K17/00 C07K17/06 C07M21/00 C07M21/04 C08F259/00 C08F8/00 C08G63/48 C08J7/18 C08L33/02 C12M1/00 C12M1/34 C12N11/00 C12N15/09 C12P19/34 C12Q1/00 C12Q1/48 C12Q1/58 C12Q1/68 C12Q1/70 C12Q4/68 G01B13/14 G01N1/00 G01N15/06 G01N21/01 G01N33/00 G01N33/48 G01N33/50 G01N33/53 G01N33/543 G01N33/544 G01N33/566 G01N33/58 G01N35/00 G01N35/02 G01N35/04 G01N37/00 G06F17/30 G06F19/00 G06G7/58 G06K19/00 G06K19/06 G06K7/10 G09F3/00 G11C13/02 G11C13/04 G11C17/00 H01L21/336

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**European class:** B01J19/00C B01L3/00C6D2 B01L3/00E2B B01L3/14C B01L3/50255 B01L3/5027 B01L3/50825 B01L3/5453 B82Y10/00 C07H21/00 C07K1/00 C07K1/04 C07K1/04C C08J7/16 G01N33/542 G01N33/543F G01N33/543M G01N35/00G3C G01N35/00G3L G11C13/00R5C G11C13/00R5C4 G11C13/02 G11C13/02N L01J219/00C10B L01J219/00C10B2 L01J219/00C10B4 L01J219/00C2B10B L01J219/00C2B10B6 L01J219/00C2B2B L01J219/00C2B2F L01J219/00C2B2F4 L01J219/00C2B4B L01J219/00C2B4B2 L01J219/00C2B4D L01J219/00C2B4D6 L01J219/00C2F2 L01J219/00C2H2B L01J219/00C2H2B2 L01J219/00C2L2 L01J219/00C2L3 L01J219/00C2N L01J219/00C2N10 L01J219/00C2N12B L01J219/00C2N12D L01J219/00C2N2 L01J219/00C2N6 L01J219/00C2N6B L01J219/00C2N6D L01J219/00C2N8 L01J219/00C2N8F L01J219/00C4B L01J219/00C4D L01J219/00C4F L01J219/00C4H L01J219/00C6F2 L01J219/00C6F4 L01J219/00C6J L01J219/00R20H12 L01L3/5027A L01L3/5027H L01L300/02A2 L01L300/02C L01L300/06A L01L400/06M8 M07K203/00 M08J327/12 M40B40/06 M40B40/10 M40B50/14 M40B60/14 M40B70/00 S01N15/14T S01N333/912B1 S01N35/00G3C1V S01N35/00G3L S01N500/00 S11C13/02N S11C213/81

**US class:** 209/597 209/604 235/439 235/462.01 250/328 365/129 365/151 365/153 365/183 365/244 365/63 422/101 422/102 422/104 422/107 422/108 422/119 422/403 422/423 422/50 422/504 422/509 422/527 422/55 422/57 422/58 422/68.1 422/82.01 422/82.05 422/82.12 422/99 424/422 424/489 435/287.1 435/287.2 435/287.200S 435/287.3 435/287.9 435/288.1 435/288.3 435/288.4 435/288.5 435/288.7 435/297.1 435/303.1 435/305.2 435/4 435/5 435/6 435/6.1 435/6.11 435/6.12 435/6.120P 435/6.13 435/6.130S 435/6.16 435/6P 435/7.1 435/7.100S 435/7.2 435/7.3 435/7.4 435/7.8 435/7.9 435/7.92 435/91.1

435/91.2 436/161 436/163 436/164 436/165 436/182 436/183 436/501 436/501S 436/518 436/519 436/520 436/523 436/524 436/527 436/528 436/531 436/533 436/534 436/535 506/13 506/15 506/16 506/18 506/2 506/24 506/26 506/27 506/28 506/3 506/30 506/31 506/32 506/33 506/34 506/37 506/39 506/4 506/40 506/41 506/7 506/7S 506/9 506/9P 525/10 525/11 525/276 525/32.1 525/32.2 525/33 525/50 525/54.3 525/55 525/63 525/64 525/69 525/7 525/7.1 525/70 525/78 525/8 530/300 530/333 530/334 530/335 530/350 530/354 530/388.1 536/23.1 536/24.3 536/24.33 536/25.3 702/150 702/19 702/20 702/20S 702/21 702/22 702/23 702/27 702/28 702/30 711/1

Classification Explorer

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**Abstract:**
Source: US2007248957A Combinations, called matrices with memories, of matrix materials with remotely addressable or remotely programmable recording devices that contain at least one data storage unit are provided. The matrix materials are those that are used in as supports in solid phase chemical and biochemical syntheses, immunoassays and hybridization reactions. The matrix materials may additionally include fluophors or other luminescent moieties to produce luminescing matrices with memories. The data storage units are non−volatile antifuse memories or volatile memories, such as EEPROMS, DRAMS or flash memory. By virtue of this combination, molecules and biological particles, such as phage and viral particles and cells, that are in proximity or in physical contact with the matrix combination can be labeled by programming the memory with identifying information and can be identified by retrieving the stored information. Combinations of matrix materials, memories, and linked molecules and biological materials are also provided. The combinations have a multiplicity of applications, including combinatorial chemistry, isolation and purification of target macromolecules, capture and detection of macromolecules for analytical purposes, selective removal of contaminants, enzymatic catalysis, cell sorting, drug delivery, chemical modification and other uses. Methods for electronically tagging molecules, biological particles and matrix support materials, immunoassays, receptor binding assays, scintillation proximity assays, non−radioactive proximity assays, and other methods are also provided.

PatBase - WO9831732_A2

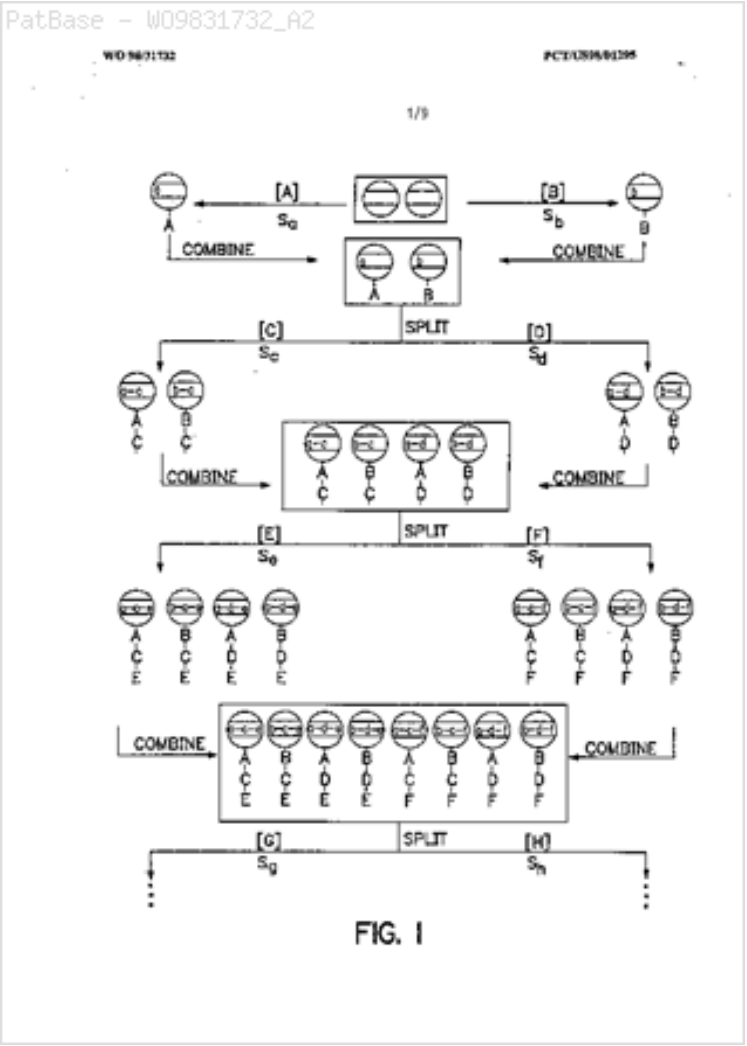



FIG. 1

**26) Family number: 30419227** (US5042291A) © PatBase

**Title:** Method for reducing test cycle time and for improving measuring accuracy at a leak testing process

**Priority:**

AU19940078843 19941115
AU19980052152 19980120
CA19902008372 19900123
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DE19893902435 19890127
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**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
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**Probable Assignee:** ASAKURA KOGYOSHO KK

**Assignee(s):**(std)**:** LEHMANN MARTIN ; ASAKURA KOGYOSHO KK ; LEMANN MART ; YAMAMOTO KOGYO ; MARTIN LEMANN ; MARTN LEHMANN ; YAMAMOTO KOGYO KABUSHIKI KAISH

**Assignee(s):** MARTIN LEHMANN ; YAMAMOTO KOGYO KABUSHIKI KAISHA ; YAMAMOTO KOGYO KK ; MAACHIN REEMAN ; KABUSHIKI KAISHA ASAKURA KOGYOSHO ; LEHMANN MARTIN WOHLEN CH

**Inventor(s):**(std)**:** LEMANN MART ; LEMANN MARTIN ; MAACHIN REEMAN ; MARTIN LEHMANN ; MARTIN LEMANN ; MARTN LEHMANN ; YAMAMOTO KAORU ; IWANO HARUJI ; LEHMANN MARTIN

**Inventor(s):** LEHMANN MARTIN WOHLEN CH

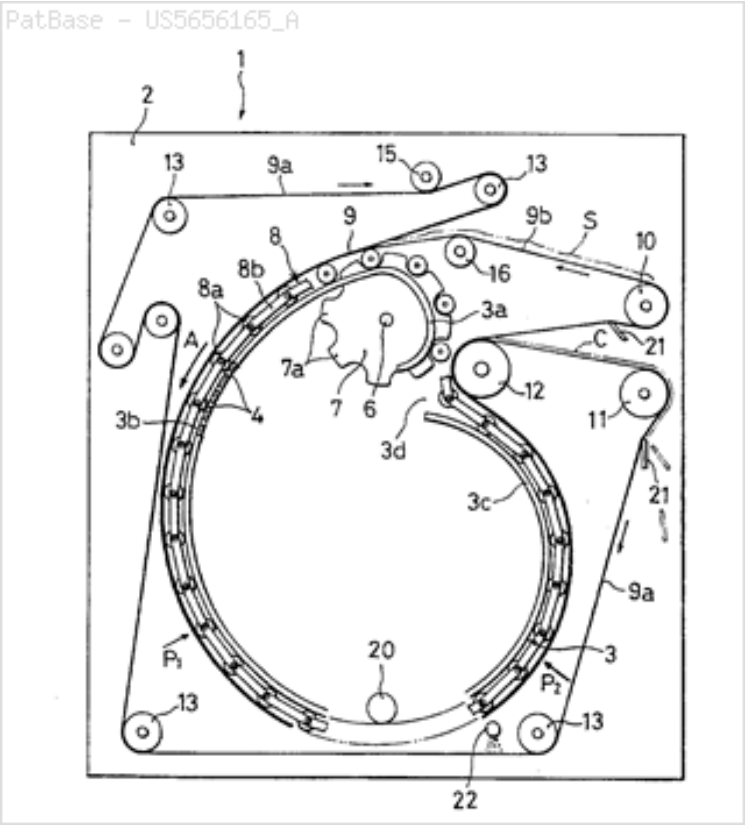
**Agent(s):** SPRUSON AND FERGUSON; ASPEN PHARMA PTY LTD; KIRBY EADES GALE BAKER; IMAMURA KENICHI

**Designated states:** AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE

**International class (IPC 8–9):** B01D33/04 B30B9/24 C02F11/12 G01M3/00 G01M3/02 G01M3/04 G01M3/26 G01M3/32 (Advanced/Invention);

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|---|---|
| | G01M3/00 G01M3/04 (Advanced/Non–invention); B01D33/04 B30B9/02 C02F11/12 G01M3/32 (Core/Invention) |
| **International class (IPC 1–7):** | B01D33/04 B01D33/052 B03B9/24 B30B9/24 B65B57/00 C02F11/12 G01M3/00 G01M3/04 G01M3/26 G01M3/32 G01N3/32 |
| **CPC:** | G01M3/329 B01D33/042 B30B9/24 B30B9/246 |
| **European class:** | B01D33/04B B30B9/24 B30B9/24F G01M3/32E2 |
| **US class:** | 100/118 100/153 210/400 210/401 210/783 73/45.4 73/49.3 73/52 |
| Classification Explorer | |
| **Cited documents:** | US5199296 A, US5150605 A, US5042291 A, US5029463 A, US4935138 A, US4934180 A, US4905501 A, US4899574 A, US4862732 A, US4791805 A, US4791805, US4774830 A, US4747299 A, US4715215 A, US4706494 A, US4667506 A, US4593554 A, US4325501 A, US3973483 A, US3949598 A, US3813923 A, US3813923, US3799052 A, US3795137 A, US3517548 A, US3177704 A, US3091114 A, US3027753 A, US2011332 A, SU157820 T, JP6304797 A2, JP6304796 A2, JP6246111 A2, JP62230498 A2, JP62224499 A2, JP62224499, JP62176699 A2, JP62151299 A2, JP62137534 A2, JP61246648 A2, JP61246648, JP5834337, JP58034337 A2, JP58034337, JP57079099 A2, JP3156334 A2, JP254140, JP2232543, JP1206231 A2, GBA2051598, GB840294 A, GB2051598 A1, GB2010690 A1, FR2180123 A1, EP0577454 A2, EP0432550 A2, EP0311526 A1, EP0155658 A2, DEA1786320, DE8128651 U, DE395584 A, DE3715828 A1, DE3528248 A1, DE2447578 A1, DE2218194 A1, DE2115563 A1, DE2009197 A1, DE1786320 U, DE1786320 A1, CH395584 A, CH385584 A, |
| **Forward Citations:** | WO15108423, WO12020543, WO05008176, WO02088657, WO02088657, US9274023, US9091612, US9074960, US8544315, US8459099, US8454814, US8327690, US8096168, US7624623, US7578170, US7571636, US7454957, US7328844, US7325440, US7260981, US7000456, US6964197, US6955076, US6854318, US6829936, US6687622, US6609414, US6598463, US6575016, US6561361, US6513366, US6450012, US6450011, US6439033, US6354142, US6308556, US6305215, US6202477, US6185987, US6164122, US6143133, US6082184, US5985159, US5918270, US5907093, US5656165, US5513516, US5497654, US5345814, US5333492, US5333491, US5226316, US5199296, US2014290344, US2014260557, US2011174060, US2010251805, US2010163428, US2010077841, US2009139911, US2009025457, US2009018381, US2008276693, US2008016951, US2007266773, US2006191322, US2006081036, US2005039519, US2004195315, US2004060855, US2004007072, US2003196478, NL2012110, NL2009394, KR101223348, JP7294369, JP5673513, JP4924745, JP3488213, JP3313253, JP2012042489, JP2012042227, JP2009075133, JP2002357026, EP1647802, EP1647802, EP0920896, EP0720906, EP0720906, EP0654656, DE19642099, CN105043712, CN104236826, CN103097872, CN103097872, AU699979, AU685172, |

**Abstract:**
Source: US5042291A A method and test chamber for leak testing a container with a substantially flexible wall portion wherein the container is introduced into a test cavity so that the wall portion of the container is spaced from an inner adjacent wall portion of the test cavity with a gap being defined between the wall portion of the cavity and the flexible wall portion of the container. A pressure difference is installed as an initial value between the interior of the container and at least the gap by applying a pressure at least to the gap which is smaller than a pressure inside the container. The flexible wall portion is supported from its exterior side within the test cavity so as to prevent the flexible wall portion from bending outwardly into contact with the wall portion of the test cavity as a result of the pressure difference. The time course of a pressure prevailing within the gap is measured as a leak indicative signal.



**27) Family number: 62793326** (US2016189806A) © PatBase

**Title:** FISSION REACTION CONTROL IN A MOLTEN SALT REACTOR

**Priority:** US20140097235P 20141229 US20140098984P 20141231 US20150234889P 20150930 US20150980617 20151228 US20150981512 20151228 US20150757683 20151223 US20150981606 20151228 US20160282814 20160930 US20160337235P 20160516 WO2015US67905 20151229 WO2015US00499 20151224

**Family:**

| Publication number | Publication date | Application number | Application date |
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| AU2015372569 AA | 20160707 | AU20150372569 | 20151224 |
| AU2015374124 AA | 20160707 | AU20150374124 | 20151229 |
| US2016189806 AA | 20160630 | US20150981606 | 20151228 |
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| WO16108939 A3 | 20160909 | WO2015US00499 | 20151224 |
| WO16109442 A1 | 20160707 | WO2015US67704 | 20151228 |
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| WO16109579 A1 | 20160707 | WO2015US67923 | 20151229 |
| WO17059360 A1 | 20170406 | WO2016US55001 | 20160930 |

**Probable Assignee:** TERRAPOWER LLC

**Assignee(s):**(std): CISNEROS ANSELMO T JR ; TERRAPOWER LLC ; CZERWINSKI KEN ; LATKOWSKI JEFFERY F ; KERLIN WILLIAM M ; EL DASHER BASSEM S ; KRAMER KEVIN ; KELLEHER BRIAN C ; PETROSKI ROBERT C ; WALTER JOSHUA C ; CHEATHAM JESSE R III

**Assignee(s):** CISNEROS ANSELMO T ; CHEATHAM JESSE R

**Inventor(s):**(std): WALTER JOSHUA C ; VOLLMER JAMES M ; PETROSKI ROBERT C ; LATKOWSKI JEFFERY F ; KRAMER KEVIN ; KERLIN WILLIAM M ; KELLEHER BRIAN C ; JOHNS CHRISTOPHER J ; FREEMAN CHARLES GREGORY ; EL DASHER BASSEM S ; CZERWINSKI KEN ; CISNEROS JR ANSELMO T ; CISNEROS ANSELMO T JR ; CHEATHAM JESSE R III ; CHEATHAM III JESSE R

**Inventor(s):** CHEATHAM JESSE R ; CISNEROS ANSELMO T

**Agent(s):** PHILLIPS ORMONDE FITZPATRICK; BRUESS STEVEN C ET AL; KOWALCHYK KATHERINE M ET AL; HOLZER RICHARD J JR; SANDERSON SCOTT A

**Designated states:** AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DJ DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KW KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

**International class (IPC 8–9):** G21C1/02 G21C1/03 G21C1/22 G21C11/06 G21C15/28 G21C19/28 G21C19/30 G21C19/303 G21C19/50 G21C21/00 G21C23/00 G21C3/24 G21C3/54 G21C3/58 G21C7/22 G21C7/27 G21C7/28 G21C7/30 G21G1/02 G21G1/06 G21K5/08 (Advanced/Invention); G21C3/22 G21C3/54 (Advanced/Non–invention)

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**US class:** 252/637 376/189 376/212 376/213 376/311 376/360

Classification Explorer

**Cited documents:** WO16109565 A2, WO14128457 A1, WO14039641 A2, WO13180029 A1, WO13085383 A1, US6181759 BA, US5421855 A, US5185120 A, US3383285 A, US201514981512, US2015117589 AA, US2014348287 AA, US2012288048 AA, US2012069946 AA, US2011305309 AA, US2011286565 AA, US2011131991 AA, JP3282397 A2, JP2014119429 A2, JP2012047531 A2, JP2010223942 A2, JP2003063801 A2, JP2001133572 A2, JP11174194 A2,

**Forward Citations:** WO17059360,

**Abstract:**
Source: US2016189806A A molten salt reactor includes a nuclear reactor core for sustaining a nuclear fission reaction fueled by a molten fuel salt. A molten fuel salt control system removes a volume of the molten fuel salt from the nuclear reactor core to maintain a reactivity parameter within a range of nominal reactivity. The molten fuel salt control system includes a molten fuel salt exchange system that fluidically couples to the nuclear reactor core and exchanges a volume of the molten fuel salt with a volume of a feed material containing a mixture of a selected fertile material and a carrier salt. The molten fuel salt control system can include a volumetric displacement control system having one or more volumetric displacement bodies insertable into the nuclear reactor core. Each volumetric displacement body can remove a volume of molten fuel salt from the nuclear reactor core, such as via a spill–over system.

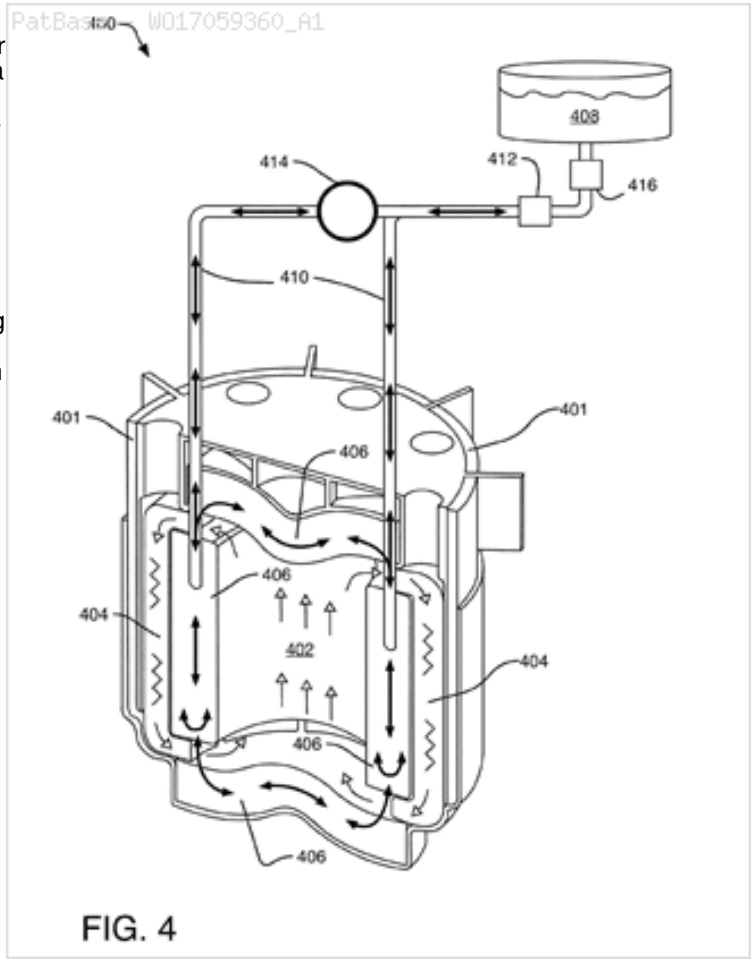


FIG. 4

**28) Family number: 29371029** (US4776145A) © PatBase

**Title:** Multi purpose dome structure and the construction thereof

**Priority:**

| | | |
|---|---|---|
| CA19870547969 19870928 | CA19870616173 19870928 | CA19875479690 19870928 |
| EP19870307967 19870909 | US19880206849 19880615 | US19830559911 19831209 |
| US19890396377 19890821 | US19860915269 19861003 | CA19952153631 19950711 |
| US19890436479 19891114 | US19910753652 19910930 | US19970874494 19970613 |
| US19940279635 19940722 | US19930076261 19930611 | US19930012986 19930129 |
| US19910782436 19911025 | US19900477715 19900209 | US19910797904 19911126 |

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| AT76671 E | 19920615 | AT19870307967T | 19870909 |
| CA1300840 A1 | 19920519 | CA19870547969 | 19870928 |
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| CA1315944 A2 | 19930413 | CA19910616173 | 19910923 |
| CA2153631 AA | 19960123 | CA19952153631 | 19950711 |
| DE3779388 D1 | 19920702 | DE19873779388 | 19870909 |
| EP0262818 A2 | 19880406 | EP19870307967 | 19870909 |
| EP0262818 A3 | 19881026 | EP19870307967 | 19870909 |
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| US4776145 A | 19881011 | US19830559911 | 19831209 |
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| US5105590 A | 19920421 | US19890436479 | 19891114 |
| US5134830 A | 19920804 | US19890396377 | 19890821 |
| US5177919 A | 19930112 | US19910753652 | 19910930 |
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| US5675941 A | 19971014 | US19940279635 | 19940722 |
| US5881530 A | 19990316 | US19970874494 | 19970613 |

**Probable Assignee:** DYKMANS MAXIMILIAAN JACOBUS

**Assignee(s):**(std)**:** DYKMANS MAX J ; DYKMANS MAXIMILIAAN J ; DYKMANS MAXIMILIAAN JACOBUS ; DYKMANS MAXIMILIAN JACOBUS ; DYKMANS MAXIMILLIAN J ; DYKMANS MAXIMILLIAAN J

**Assignee(s):** DYKMANS MAXIMILIAN JACOBUS LA MESA CALIF ; DYKMANS MAXIMILIAN JACOBUS LA MESA CALIF US

**Inventor(s):**(std)**:** DYKMANS MAX J ; DYKMANS MAXIMILIAAN J ; DYKMANS MAXIMILIAAN JACOBUS ; DYKMANS MAXIMILLIAAN J ; DYKMANS MAXIMILLIAN J ; DYKMANS MAXIMILIAN JACOBUS

**Inventor(s):** DYKMANS MAXIMILIAN JACOBUS LA MESA CALIF

**Agent(s):** SMART AND BIGGAR

**Designated states:** AT BE CH DE ES FR GB GR IT LI LU NL SE

**International class** (IPC 8–9)**:** B65D88/00 B65D88/34 B65D90/00 E04B1/16 E04B1/32 E04B7/08 E04B7/10 E04C5/08 E04C5/18 E04G11/04 E04G11/06 E04G11/36 E04G21/12 E04H7/20 E04H7/26 E04H7/28 (Advanced/Invention); E04B1/32 (Advanced/Non–invention); B65D90/00 (Core/Invention)

**International class** (IPC 1–7)**:** B65D88/00 B65D90/00 E02D5/74 E04B1/16 E04B1/32 E04G11/04 E04H7/00

**CPC:** B65D88/34 E04B1/168 E04B1/3211 E04B7/08 E04B2001/3217 E04B2001/3264 E04C5/08 E04C5/18 E04G11/04 E04G11/065 E04G11/36 E04G21/12 E04H7/20 E04H7/26 E04H7/28 E04B7/102

**European class:** B65D88/34 E04B1/16F1 E04B1/32C E04B7/08 E04B7/10B E04C5/08 E04C5/18 E04G11/04 E04G11/06B2 E04G11/36 E04G21/12 E04H7/20 E04H7/26 E04H7/28 P04B1/32H P04B1/32N1

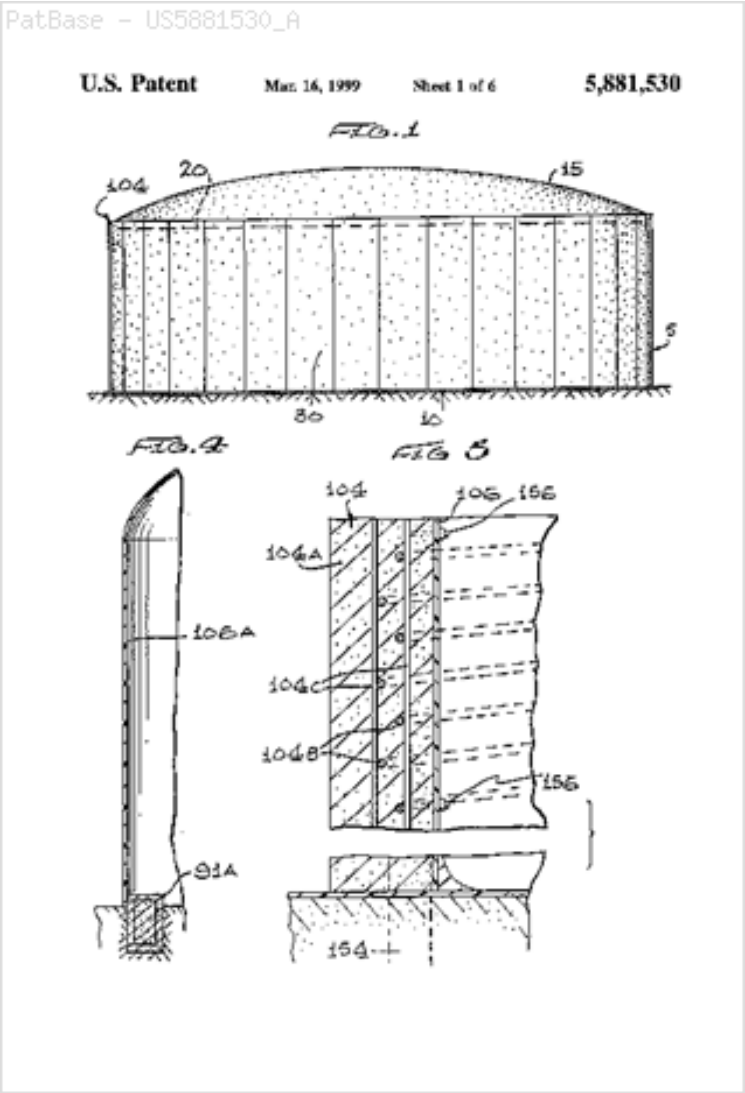
**US class:** 156/143 220/319 264/32 264/34 405/229 405/244 417/38 427/496 427/501 427/508 427/513 52/169.7 52/2.15 52/215 52/223.14 52/223.2 52/223.3 52/223.4 52/223.6 52/223L 52/223R 52/224 52/235 52/245 52/247 52/249 52/297 52/298 52/309.16 52/309.17 52/573 52/573.1 52/741.1 52/741.4 52/745.01 52/745.06 52/745.07 52/745.2 52/80.1 52/800 52/801 52/81.1 52/81.6 522/980

Classification Explorer

**Cited documents:** USRE28689 E, US5675941 A, US5408793 A, US5134830 A, US5094044 A, US4884747 A, US4879859 A, US4875808 A, US4869467 A, US4776145 A, US4723751 A, US4696133 A, US4642856 A, US4629592 A, US4628861 A, US4593360 A, US4588541 A, US4578302 A, US4550544 A, US4514471 A, US4493286 A, US4468412 A, US4446083 A, US4442059 A, US4372733 A, US4365455 A, US4324074 A, US4321776 A, US4320075 A, US4317317 A, US4307554 A, US4302979 A, US4302978 A, US4289564 A, US4271647 A, US4269011 A, US4226677 A, US4170093 A, US4155967 A, US4148332 A, US4144680 A, US4126976 A, US4104097 A, US4102956 A, US4094110 A, US4077177 A, US4069642 A, US4068777 A, US4021972 A, US3984266 A, US3956816 A, US3927497 A, US3922426 A, US3914077 A, US3906700 A, US3892367 A, US3886961 A, US3872634 A, US3824751 A, US3801009 A, US3769763 A, US3765605 A, US3719341 A, US3676976 A, US3666190 A, US3666189 A, US3643910 A, US3619432 A, US3619431 A, US3616070 A, US3572596 A, US3557515 A, US3518748 A, US3510041 A, US3504474 A, US3462521 A, US3410039 A, US3409222 A, US3397503 A, US3338010 A, US3315343 A, US3280525 A, US3278128 A, US3277219 A, US3233376 A, US3153302 A, US3139464 A, US3118010 A, US2952947 A, US2892239 A, US2836529 A, US2833593 A, US2579183 A, US2544828 A, US2414310 A, US2413243 A, US2388701 A, US2335300 A, US2270229 A, US2250175 A, US2223418 A, US2185749 A, US1870487 A, US1668486 A, US1492327 A, SU7616799, SU761679 T, SU715757 T, SU596291 T, SU559009 T, SU236743 T, JP54022470 A2, GB938939 A, GB815942 A, GB776077 A, GB2092215 A1, FR94811 E, FR935724 A, FR549619 A, FR2490745 A1, FR1489329 A, FR1383795 A, DE3329296 A1, DE2722984 A1, DE2716325 A1, DE2013337 A1, DE1052103 B, DE1052103 A, CA707523 A, BE549619 A, AU788927 A1,

**Forward Citations:** WO9528538, WO16055840, WO15118258, WO14085629, WO14085629, WO05082747, WO0063503, USRE39554, USD746670, USD711214, USD608440, US9650800, US9611662, US9605423, US9556626, US9546495, US9453606, US9441389, US9284114, US9217255, US9181690, US8991137, US8973336, US8684220, US8650830, US8627612, US8621790, US8191318, US8167676, US7971602, US7913462, US7765746, US7682993, US7506483, US7260998, US6892505, US6843443, US6840013, US6771731, US6739103, US6675548, US6616381, US6421963, US6276095, US6240686, US6090465, US5918438, US5881530, US5759849, US5680739, US5675941, US5673528, US5672506, US5647503, US5542229, US5436385, US5408793, US5361550, US5313763, US5168676, US5094044, US5025605, US2015267434, US2015197953, US2015075099, US2014250803, US2014245691, US2014231617, US2014144916, US2012311941, US2012297698, US2012285575, US2012211391, US2012102875, US2012000546, US2011219707, US2010320915, US2010294778, US2010154320, US2010154319, US2010154318, US2010101163, US2009212168, US2009025306, US2008196348, US2008128030, US2007102063, US2007094938, US2006230985, US2006207337, US2006037278, US2005210767, US2005166475, US2005097830, US2005077293, US2004045227, US2004006926, US2003233798, US2003150188, US2003054542, US2002187730, US2002074444, RU2582682, GB2473017, GB2473017, GB2218453, FR3017123, ES2136521, EP2578235, EP1690585, EP1087069, EP0829586, EP0572243, EP0357151, DE202008017456, AU2007100985,

**Abstract:**
Source: US4776145A An improved dome structure on a base is disclosed comprising of a membrane sandwiched between layers of rigidifying material such as shotcrete which also serve to embed the circumferential and radial prestressing members. Circumferential prestressing can be applied to minimize bursting stresses. Further layers of rigidifying material can then be applied over the circumferential prestressing as a final protection and cover. The radial prestressing materials can contain spacers or hooks to preclude the circumferential prestressing material from riding up on the structure. The lower portion of the dome can include a reverse curvature to minimize stresses and stabilize the structure.



0) WO15023174A1 – A STERILISATION SYSTEM FOR OIL PALM FRESH FRUIT...

**29) Family number: 58512726** (WO15023174A1) © PatBase

**Title:** A STERILISATION SYSTEM FOR OIL PALM FRESH FRUIT BUNCHES

**Priority:** MY20130003006 20130815 WO2014MY00217 20140815

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| CO7610719 A2 | 20160520 | CO20160036762 | 20160215 |
| IN201617003745 A | 20160722 | IN201617003745 | 20160202 |
| WO15023174 A1 | 20150219 | WO2014MY00217 | 20140815 |

**Probable Assignee:** DOLPHIN APPLIC SDN BHD

**Assignee(s):**(std)**:** DOLPHIN APPLIC SDN BHD

**Assignee(s):** DOLPHIN APPLICATIONS SDN BHD

**Inventor(s):**(std)**:** FOSTER GREGORY L ; LOW TECK YIN

**Inventor(s):** TECK YIN LOW ; GREGORY L FOSTER

**Agent(s):** ANDREA TOBOS MATEUS; ONG CHUI KOON

**Designated states:** AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

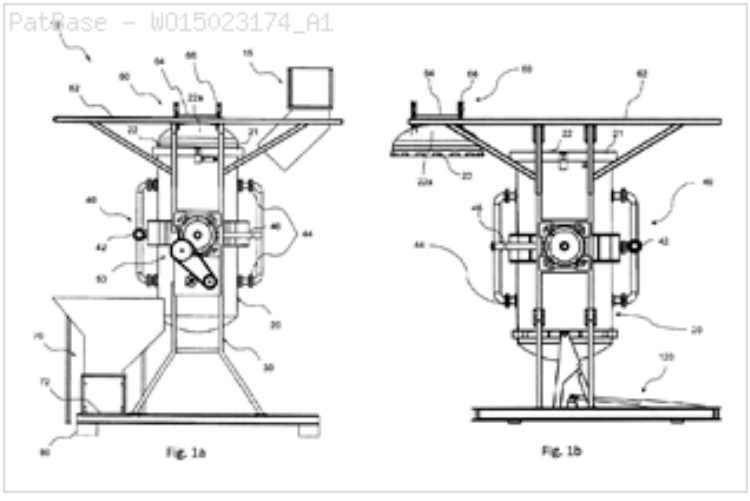
**International class (IPC 8–9):** A23D9/02 C11B1/04 (Advanced/Invention)

**CPC:** A23D9/02 C11B1/04 A23D9/06 C11B1/10

Classification Explorer

**Cited documents:** WO08060135 A1, WO08033004 A1, US6187360 BA, GB759238 A, GB2161055 A1,

**Abstract:**
The present invention relates to a sterilisation system with integrated programmable control of steam management and material handling thereof, the sterilisation system (10) comprises: a) at least one elongated vessel (20), the vessel (20) with only a single opening (22) through which FFB and/or loose fruitlets are received and discharged and the opening (22) provided with a lid (22a); b) a support frame structure (30) to support the vessel (20) either at rest or during rotation; c) a drive mechanism (50, 120, 130, 150) which is capable of delivering sufficient torque to move and hold steady an eccentric weight of the vessel (20) in a multiple of pre–determined positions between an oblique position with the opening (22) facing upwards and an oblique position with the opening (22) facing downwards; d) a lid pick and place mechanism (60) operable for removing and delivering the lid (22a) from and to the vessel (20) without hindering the rotation of the vessel (20); wherein sterilisation system (10) is provided with a computer or PC based controller to facilitate integrated lid movement with programmable multi–positional rotation of the vessel (20).



**30) Family number: 2828493** (US5116516A) © PatBase

**Title:** GRAVITATIONAL SEPARATOR FOR SEPARATING SOLID COMPONENTS OUT OF A LIQUID MIXTURE

**Priority:** CA19912037568 19910305 GB19900005977 19900316

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| CA2037568 AA | 19910917 | CA19912037568 | 19910305 |
| EP0448282 A1 | 19910925 | EP19910302124 | 19910313 |
| GB2241904 A1 | 19910918 | GB19900005977 | 19900316 |
| GB2241904 B2 | 19931201 | GB19900005977 | 19900316 |
| GB9005977 A0 | 19900509 | GB19900005977 | 19900316 |
| US5116516 A | 19920526 | US19910668980 | 19910312 |

**Probable Assignee:** HYDRO INT LTD

**Assignee(s):**(std)**:** HYDRO INT LTD

**Assignee(s):** HYDRO INTERNATIONAL LIMITED ; SMISSON ROBERT P M ; HYDRO INT

**Inventor(s):**(std)**:** SMISSON ROBERT P M ; SMISSON ROBERT PHILIPS MAUDSLA ; SMISSON ROBERT PHILIP MAUDSLEY

**Inventor(s):** SMISSON ROBERT PHILIPS MAUDSLAY ; ROBERT PHILIP MAUDSLEY SMISSON

**Agent(s):** SIM AND MCBURNEY

**Designated states:** AT BE CH DE DK ES FR GB GR IT LI LU NL SE

**International class** (IPC 8–9)**:** B01D21/02 B01D21/24 B01D21/26 B04C5/12 B04C5/181 C02F1/38 C02F1/40 E03F1/00 E03F5/00 (Advanced/Invention); B01D21/02 B01D21/24 B01D21/26 B04C5/00 C02F1/38 C02F1/40 E03F1/00 E03F5/00 (Core/Invention)

**International class** (IPC 1–7)**:** B01D21/02 B01D21/24 B01D21/26 B04C5/12 B04C5/181 C02F1/38 E03F1/00 E03F5/00

**CPC:** B01D21/267 B01D2221/12 B01D21/10 B01D21/2411 B01D21/2433

**European class:** B01D21/10 B01D21/24A2 B01D21/24D B01D21/26

**US class:** 210/170 210/170.03 210/512.1 210/537 210/538 210/747 210/747.2 210/787 210/788 210/800

Classification Explorer

**Cited documents:** US5021153 A, US4576720 A, US4532034 A, US4519848 A, US4517091 A, US4146471 A, US4146468 A, US4107038 A, US3965013 A, US3480543 A, US3136724 A, US2364405 A, GB2233255 A1, GB2223958 A1, GB2223957 A1, GB2213400 A1, GB2189413 A1, GB2158741 A1, GB2153261 A1, GB2152401 A1, GB2148744 A1, GB2082941 A1, EP0168538 A1, DE3529760 A1, DE3105081 A1,

**Forward Citations:** WO9734677, WO0181001, WO0181001, US9527091, US9192946, US9186604, US9101859, US9050610, US8960450, US8882999, US8746463, US8701896, US8663472, US8322540, US8201697, US8070965, US7699984, US7297266, US7296692, US6629652, US6576140, US5639366, US5305607, US2013043197, US2011120959, US2008257819, US2007267342, US2007108122, US2006163147, US2005145562, US2005056587, JP2011016131, GB2374297, GB2374297, GB2352409, GB2352409, GB2338192, GB2317351, EP0566792,

**Abstract:**
Source: US5116516A There is described a low energy separator for separating solid components out of a liquid mixture, comprising (a) a vessel having a cylindrical outer wall and a base at one end, (b) a body which is provided within the vessel and which defines with the base an annular opening spaced from the outer wall, (c) an inlet for introducing the liquid mixture into the vessel said inlet opening directly into the vessel, (d) an outlet in the upper region of the vessel for removing from the vessel liquid from which solid components have been separated, (e) a primary annular dip plate extending downwardly toward the base from an upper region of the vessel and spaced from the outer wall of the vessel, and (f) means for promoting a rotational movement of liquid and suspended solids within the vessel, said rotational movement being sufficient to cause or enhance an inward sweeping effect towards the annular opening on solids accumulated at the base of the vessel, while being of sufficiently low energy that separation of the solids components of the liquid in the vessel is brought about primarily by gravity; characterized in that the separator also includes a central upper chamber and a means for trapping and concentrating buoyant solids material which have already entered the vessel in said central upper chamber.

PatBase - US5116516_A



FIG. 1

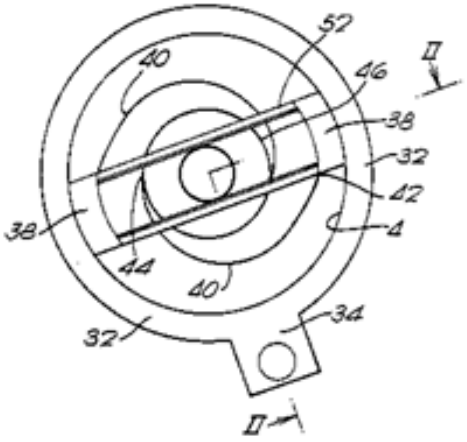
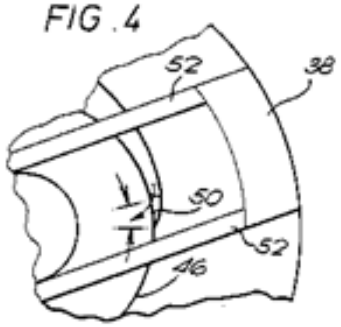



FIG. 4



**31) Family number: 30516770** (US2002077241A) © PatBase

**Title:** BLOOD PROCESSING SYSTEMS AND METHODS WITH QUICK ATTACHMENT OF A BLOOD SEPARATION CHAMBER TO A CENTRIFUGE ROTOR

**Priority:** US19990389935 19990903 US19990389938 19990903 US20010976829 20011013 US20030438953 20030515 US20010977730 20011015 US20030339473 20030109 US20020279779 20021024 US20010976830 20011013 US20010976831 20011013 US20090534256 20090803 US20050256550 20051021 WO2000US23696 20000829 WO2003US33469 20031021 WO2002US31320 20021002

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
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| CA2347615 C | 20100330 | CA20002347615 | 20000829 |
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| CA2500820 C | 20110503 | CA20032500820 | 20031021 |
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| EP1128886 A4 | 20070926 | EP20000961405 | 20000829 |
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| IN01372DN2005 A | 20090403 | IN2005DN01372 | 20050405 |
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| JP2003508178 T2 | 20030304 | JP20010521433T | 20000829 |
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| JP4531564 B2 | 20100825 | JP20040547021T | 20031021 |
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| US2002077241 AA | 20020620 | US20010976829 | 20011013 |
| US2002077582 AA | 20020620 | US20010976831 | 20011013 |
| US2002091057 AA | 20020711 | US20010977730 | 20011015 |
| US2002094927 AA | 20020718 | US20010976830 | 20011013 |
| US2003203801 AA | 20031030 | US20030339473 | 20030109 |

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|---|---|---|---|---|
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| WO03032806 A2 | 20030424 | WO2002US31319 | 20021002 | |
| WO03032806 A3 | 20040311 | WO2002US31319 | 20021002 | |
| WO03033161 A1 | 20030424 | WO2002US31318 | 20021002 | |
| WO03033162 A1 | 20030424 | WO2002US31320 | 20021002 | |
| WO04037427 A1 | 20040506 | WO2003US33469 | 20031021 | |

**Probable Assignee:** FENWAL INC

**Assignee(s):**(std)**:** BAXTER INT ; BAXTER INT INC ; FENWAL INC ; WESTBERG TOM ; SMITH KELLY B ; JOIE MICHEL L F

**Assignee(s):** ODAK SANJAY V ; KAST MICHAEL ; MORGAN STANLEY SENIOR FUNDING INC ADMINISTRATIVE AGENT AS ; RONDEAU GEORGES E ; MORGAN STANLEY SENIOR FUNDING INC ; MORGAN STANLEY AND CO INC ; MORGAN STANLEY SENIOR FUNDING INC ADMINISTRATIVE A ; BAXTER INTERNATIOANL INC ; BAXTER INTERNATIONAL INC ; BAXTER INTERNATIONAL INCORP0RATED ; FENWAL HOLDINGS INC

**Inventor(s):**(std)**:** KAST MICHAEL ; KELLY B SMITH ; MICHAEL KAST ; MICHAEL ODAK SANJAY V KAST ; MICHEL L F JOIE ; ODAK SANJAY V ; RONDEAU GEORGES E ; SANJAY V ODAK ; SMITH KELLY B ; TOM WESTBERG ; WESTBERG TOM ; VANDLIK MARK R ; RICE VAUGHN E ; ODAK SANJAY ; NAYAK ABINASH ; MEHDI NABIL ; KAST MICHAEL J ; JOIE MICHEL ; SMITH KELLY ; RONDEAU GEORGES ; GEORGES E RONDEAU ; JOIE MICHEL L F ; JOIE MICHEL L T

**Inventor(s):** JOIE MICHEL LF ; JOIE MICHEL LT

**Agent(s):** CALLINANS; FISHER ADAMS KELLY CALLINANS; DEETH WILLIAMS WALL LLP; GEARY STEPHEN ET AL; BAXTER HEALTHCARE CORP; COOK ALEX LTD; BRADFORD R L; COOK ALEX MCFARRON MANZO CUMMINGS ET AL; DANIEL D; GARY W; RENEE C

**Designated states:** AT AU BE BG BR CA CH CN CY CZ DE DK EE ES FI FR GB GR HU IE IN IT JP LI LU MC MX NL PT RO SE SI SK TR

**International class (IPC 8–9):** A61M1/02 A61M1/14 A61M1/36 A61M1/38 B01D21/00 B01D21/26 B04B1/06 B04B1/10 B04B11/02 B04B11/06 B04B5/00 B04B5/04 B04B7/00 B04B7/08 B04B9/00 C02F1/38 F04B49/06 G01N21/59 (Advanced/Invention);
A61K35/14 A61M1/02 A61M1/36 A61M1/38 B01D43/00 B04B5/00 B04B7/08 (Advanced/Non–invention);
A61M1/02 A61M1/38 B01D21/00 B01D21/26 B04B5/00 B04B7/00 G01N21/59 (Core/Invention);
A61K35/14 (Core/Non–invention)

**International class (IPC 1–7):** A61B A61M1/02 A61M37/00 B01D21/00 B01D21/26 B04B1/04 B04B15/00 B04B5/00 B04B7/00 B04B7/08 B04B9/00

**CPC:** B01D21/0003 B01D21/26 B01D21/262 A61M2205/128 A61M2230/30 B01D21/0012 B04B7/08 B01D2221/08 B01D2221/10 A61M1/3696 B04B5/0442 A61M1/3693 A61M1/38 B04B7/00 B04B2005/045 B04B2005/0492 F04B49/06 A61M1/3633 A61M1/0209 A61M1/0218

**European class:** A61M1/36Z A61M1/38 B01D21/00 B04B5/04C B04B7/00 B04B7/08 F04B49/06 K61M1/36Z2 K61M1/38 K61M205/12V K61M230/30 L04B5/04C1 L04B5/04C7

**US class:** 210/232 210/360.1 210/381 210/645 210/787 210/789 494/18 494/18P 494/19 494/19S 494/2 494/20 494/20S 494/37 494/37P 494/37S 494/39 494/43 494/43P 494/43S 494/45 494/45P 494/45S 494/50 494/56 494/56P 494/75 494/75S 494/84 494/84S 604/6.11

604/6.110P

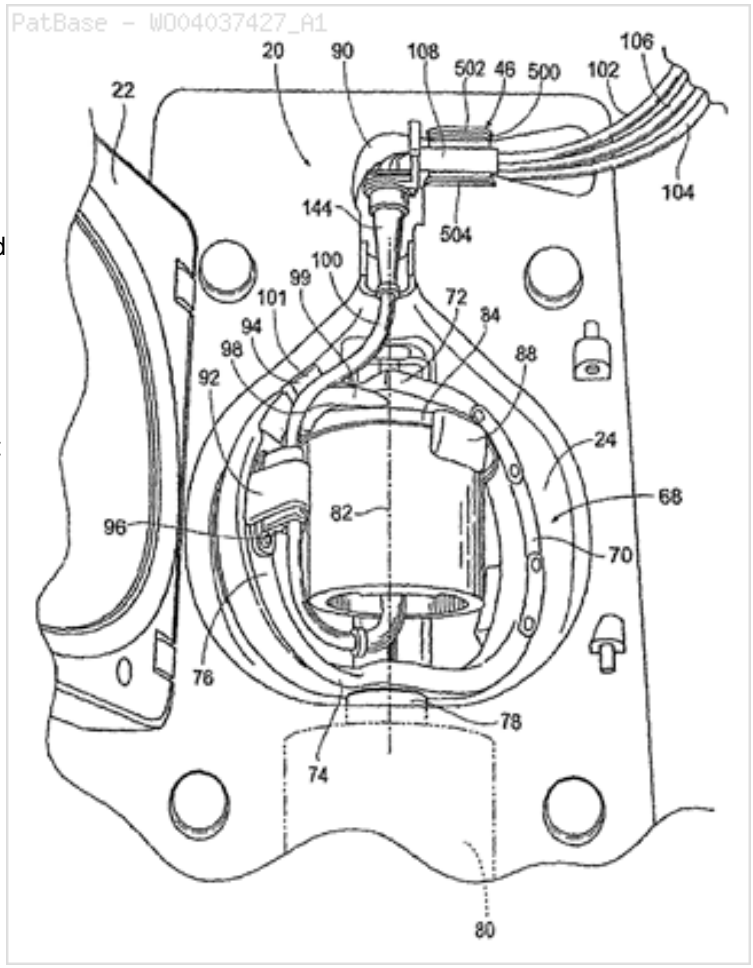
Classification Explorer

**Cited documents:** WO9850163 A1, WO9848938 A1, WO9822165 A1, WO9804938, WO9804938, WO8900084 A1, US79707 A, US7297272 BB, US7166231 BB, US6849039 BB, US6752777 BA, US6736768 BB, US6730055 BB, US6709377 BA, US6705983 BA, US66807 A, US6652476 BB, US6649072 BB, US6641552 BA, US6632191 BA, US6613009 BA, US6605223 BB, US6596180 BB, US6558307 BB, US6537445 BB, US6524231 BA, US6511411 BA, US6497674 BA, US6475175 BA, US6398972 BA, US6387263 BA, US6379322 BA, US6361700 BB, US6361518 BA, US6354986 BA, US6334842 BA, US6322488 BA, US6315707 BA, US6306961 BA, US6296602 BA, US6284142 BA, US6261065, US6200287 BA, US6102883 A, US6099491 A, US6083187 A, US6071422 A, US6063297 A, US6053856 A, US6051146 A, US6027657 A, US6027655 A, US6017318 A, US5989177 A, US5980760 A, US5980757 A, US5964690 A, US5961842 A, US5951877 A, US5939319 A, US5913768 A, US5906598 A, US5906570 A, US5906319 A, US5904645 A, US5882289 A, US5879280 A, US5876321 A, US5858253 A, US5858251 A, US5855773 A, US5853382 A, US5840502 A, US5837150 A, US5833866 A, US5807492 A, US5792038 A, US5788662 A, US5769811 A, US5750039 A, US5750025 A, US5738796 A, US5730883 A, US5722946 A, US5722926 A, US5720716 A, US5707876 A, US5704889 A, US5704888 A, US5702357 A, US5690815 A, US5663051 A, US5658231 A, US5656163 A, US5651766 A, US5643193 A, US5632905 A, US5628908 A, US5616254 A, US5607579 A, US5603845 A, US5585007 A, US5581687 A, US5571068 A, US5556557 A, US5549834 A, US5547591 A, US5545339 A, US5529567 A, US5525218 A, US5506333 A, US5494592 A, US5494578 A, US5464536 A, US5462416 A, US5456845 A, US5454958 A, US5387187 A, US5387174 A, US5386734 A, US5370802 A, US5362291 A, US5360542 A, US5350514 A, US5316540 A, US5308309 A, US5281342 A, US5258126 A, US5217627 A, US52065 A, US5186844 A, US5173193 A, US5124434 A, US5100564 A, US5078671 A, US5071570 A, US5061381 A, US4985666 A, US4985153 A, US4981585 A, US4957638 A, US4957637 A, US4954264 A, US4944883 A, US4911833 A, US4895666 A, US48892 A, US4871462 A, US4867887 A, US4834890 A, US4818418 A, US4816168 A, US4798577 A, US4776964 A, US4734089 A, US4713176 A, US4708712 A, US4647279 A, US4640785 A, US4447221 A, US4439178 A, US4402680 A, US4389206 A, US4386730 A, US4342420 A, US4330080 A, US4303193 A, US4278202 A, US4230263 A, US4189382 A, US4164318 A, US4154318 A, US4146172 A, US4132349 A, US4120449, US4120448 A, US4109854 A, US4094461 A, US4091989 A, US4010894 A, US3785549 A, US3666170 A, US211927 A, US20680 A, US205538 A, US2008087614 AA, US2008087601 AA, US2006032817 AA, US2004147865 AA, US2004104182 AA, US2004082459 AA, US2004079707 AA, US2004026341 AA, US2003233064 AA, US2003222029 AA, US2003211927 AA, US2003205538 AA, US2003199803 AA, US2003195455 AA, US2003191005 AA, US2003181305 AA, US2003155312 AA, US2003102272 AA, US2003066807 AA, US2003052065 AA, US2002177799 AA, US2002142909 AA, US2002128584 AA, US2002104808 AA, US2002094927 AA, US2002068675 AA, US2002068674 AA, US2002058575 AA, US2002033370 AA, US2002020680 AA, US2001051569 AA, US2001048892 AA, US199803 A, US191005 A, US177799 A, US1647292 A, US147865 A, US128584 A, US104808 A, US104182 A, US102272 A, US09976832, US09976830, US09976829, JP59127661 A2, JP56166957 A2, EP1043072 A1, EP0363119 A2, DE19706997 A1,

**Forward Citations:** WO14056421, WO13096038, WO12093179, WO04037377, WO04037066, WO04037066, WO03075983, US9656052, US9624915, US9610392, US9603989, US9561323, US9561318, US9555181, US9545637, US9500188, US9421314, US9383044, US9248225, US9238097, US9186449, US9180240, US9114408, US9101709, US9095665, US9078971, US9028440, US9028388, US9011359, US9011114, US9005153, US8986254, US8974362, US8932032, US8926835, US8870733, US8840535, US8801586, US8784359, US8783470, US8758211, US8747291, US8721883, US8720913, US8692167, US8685258, US8657730, US8617042, US8616862, US8562501, US8556864, US8556794, US8485958, US8469916, US8469871, US8460165, US8435408, US8394006, US8377293, US8366921, US8337711, US8317672, US8206650, US8192401, US8187475, US8142653, US8133389, US8128611, US8105495, US8101404, US8096422, US8075468, US8070665, US8062202, US8016736, US8012077, US7987995, US7935074, US7918350, US7914477, US7866485, US7850634, US7828709, US7824559, US7816124, US7807450, US7789245, US7766809, US7740804, US7708889, US7695423, US7674221, US7651474, US7531098, US7503889, US7497944, US7479123, US7476209, US7473216, US7465576, US7463343, US7438679, US7420660, US7396452, US7297272, US7282154, US7279107, US7211037, US7186230, US7166231, US7115205, US7094197, US7094196, US7087177, US7037428, US7011761, US7004727, US6890291, US6884228, US6860846, US6849039, US6846161, US6808503, US6773389, US6736768, US6716004, US6706008, US6582386, US2017100726, US2016361482, US2016175514, US2014150888, US2014100506, US2012267290, US2012220915, US2011230814, US2011196289, US2011178474, US2011098635, US2011079547, US2011021333,

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**Abstract:**
Source: US2002077241A A blood separation assembly comprises a blood processing chamber having a base including formed walls that define a separation channel. A centrifuge rotor is rotatable about a rotational axis. A latch assembly comprises a latch arm that is pivotally mounted on the centrifuge rotor. The latch arm can be moved between a chamber−retaining position engaging the blood processing chamber, to secure the blood processing chamber to the centrifuge rotor, and a chamber− releasing position free of engagement with the blood processing chamber, to enable removal of the blood processing chamber from the centrifuge rotor. The latch assembly also includes a pawl movable on the centrifuge rotor between a first position adjacent the latch arm and a second position spaced from the latch arm. The pawl includes a locking element that engages the latch arm when the latch arm is in the chamber−retaining position, to resist movement of the latch arm toward the chamber−releasing position. A spring biases the pawl toward the first position.



0) WO17037429A3 – DEWAR VESSEL STORAGE APPARATUS APPAREIL DE STO...

**32) Family number: 60724250** (WO17037429A3) © PatBase

**Title:** DEWAR VESSEL STORAGE APPARATUS

**Priority:** GB20150015344 20150828 GB20150016763 20150922

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| GB201515344 A0 | 20151014 | GB20150015344 | 20150828 |
| GB201516763 A0 | 20151104 | GB20150016763 | 20150922 |
| GB2541734 A1 | 20170301 | GB20150015344 | 20150828 |
| GB2541752 A1 | 20170301 | GB20150016763 | 20150922 |
| WO17037429 A2 | 20170309 | WO2016GB52645 | 20160825 |
| WO17037429 A3 | 20170427 | WO2016GB52645 | 20160825 |

**Probable Assignee:** INTELLIGENT ENERGY LTD

**Assignee(s):**(std)**:** INTELLIGENT ENERGY LTD

**Inventor(s):**(std)**:** ADCOCK PAUL LEONARD ; ANAND CHELLAPPA ; CHELLAPPA ANAND ; HENRI WINAND ; PAUL LEONARD ADCOCK ; WINAND HENRI

**Agent(s):** LINCOLN BEN JAMES

**Designated states:** AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

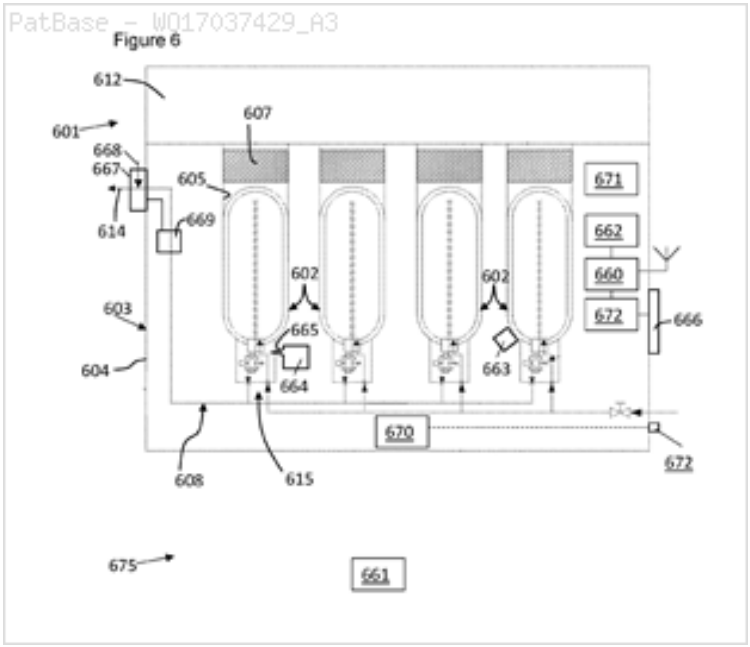
**International class** (IPC 8–9)**:** F17C1/12 F17C13/08 F17C3/02 (Advanced/Invention)

**CPC:** F17C1/12 F17C3/02 F17C2205/01 F17C2205/0103 F17C2205/03 F17C2270/0509 F17C13/084 F17C13/086 F17C2201/058 F17C2203/032 F17C2203/0325 F17C2203/0329 F17C2203/0366 F17C2203/0391 F17C2205/0111 F17C2205/013 F17C2205/0142 F17C2205/0146 F17C2205/0176 F17C2205/058 F17C2221/012 F17C2221/014 F17C2221/033 F17C2227/0355 F17C2250/034 F17C2250/0408 F17C2250/0421 F17C2250/0478 F17C2265/031

Classification Explorer

**Cited documents:** WO07072470 A1, US3319433 A, US2075408 A, CN105605414 A, CN103615655 A,

**Abstract:**
A dewar vessel storage apparatus configured to hold at least two dewar vessels containing liquefied gas or cryo–compressed gas, comprising; a box having an outer, thermally insulating, wall; the box comprising a plurality of insulating cavities, each cavity configured to receive a single dewar vessel and is thermally insulated from each other cavity; a thermally insulating closure arrangement configured to close an open end of each cavity; a ventilation assembly comprising at least one conduit within the box configured to provide for venting of gas released from the dewar vessels when stored in the respective cavities of the box, the ventilation assembly configured to provide a gas outlet flow path from each cavity.



0) US2002053120A – CREMATION CONTAINER FOLDABLE INTO COMPACT CONFI...

**33) Family number: 32321533** (US2002053120A) © PatBase

**Title:** CREMATION CONTAINER FOLDABLE INTO COMPACT CONFIGURATION FOR SHIPPING

**Priority:**

| | | | | | |
|---|---|---|---|---|---|
| CA20002301322 | 20000314 | CA20022406420 | 20021003 | IL19980125273 | 19980708 |
| US19990125273 | 19990319 | US19990348865 | 19990707 | US20010970834 | 20011004 |
| US20000493919 | 20000128 | US19990312301 | 19990514 | US19990125273P | 19990319 |
| US20050152901 | 20050615 | US20090348457 | 20090105 | US20100815928 | 20100615 |

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| AU200022329 A5 | 20000921 | AU20000022329D | 20000317 |
| AU774509 B2 | 20040701 | AU20000022329 | 20000317 |
| CA2301322 AA | 20000919 | CA20002301322 | 20000314 |
| CA2406420 AA | 20030404 | CA20022406420 | 20021003 |
| CA2406420 C | 20110104 | CA20022406420 | 20021003 |
| GB200006422 A0 | 20000503 | GB20000006422 | 20000316 |
| GB2347923 A1 | 20000920 | GB20000006422 | 20000316 |
| GB2347923 B2 | 20021218 | GB20000006422 | 20000316 |
| IL125273 A0 | 19990312 | IL19980125273 | 19980708 |
| IL125273 A1 | 20060820 | IL19980125273 | 19980708 |
| JP2001029406 A2 | 20010206 | JP20000120173 | 20000316 |
| MXPA00002757 A1 | 20020820 | MX2000PA02757 | 20000317 |
| TW436283 B | 20010528 | TW20000104985 | 20000317 |
| US2002053120 AA | 20020509 | US20010970834 | 20011004 |
| US2005232288 AA | 20051020 | US20050152901 | 20050615 |
| US2009109989 AA | 20090430 | US20090348457 | 20090105 |
| US2010246595 AA | 20100930 | US20100815928 | 20100615 |
| US6202270 BA | 20010320 | US19990312301 | 19990514 |
| US6557221 BB | 20030506 | US20010970834 | 20011004 |
| US6571440 BA | 20030603 | US20000493919 | 20000128 |
| US6967962 BA | 20051122 | US19990348865 | 19990707 |
| US7477652 BB | 20090113 | US20050152901 | 20050615 |
| US7738474 BB | 20100615 | US20090348457 | 20090105 |
| US8005104 BB | 20110823 | US20100815928 | 20100615 |

**Probable Assignee:** MARVELL ISRAEL MISL LTD

**Assignee(s):**(std)**:** BATESVILLE SERV INC ; BATESVILLE SERVICES INC ; BATESVILLE SEVICES INC ; GALILEO TECHNOLOGY LTD ; MARVELL ISRAEL M I S L LTD ; MARVELL ISRAEL MISL LTD ; MARVELL SEMICONDUCTOR ISRAEL L ; SHEMLA DAVID ; MEDINA EITAN ; MARVELL SEMICONDUCTOR ISRAEL

**Assignee(s):** PARKER DANIEL J ; SOMTRAKOOL SAMACHA ; SCHEELE ED ; HAGAN GEORGE ; HEIL TOM ; MAPLE DON ; MAPLE JAMES ; JONES RODGER ; MARVELL SEMICONDUCTOR ISRAEL LTD ; MARVELL ISRAEL (MISL) LTD ; MARVELL ISRAEL LTD ; BOWMAN PAT ; COX GRAYSON

**Inventor(s):**(std)**:** BOWMAN PAT ; COX GRAYSON ; DANIEL J PARKER ; ED SCHEELE ; FAULKNER GREG ; FLEDDERMAN BRIAN ; HAGAN GEORGE ; HEIL TOM ; JAMES MAPLE ; JONES RODGER ; JONES ROGER ; MAPLE DON ; MAPLE JAMES ; MAPLE JIM ; MEDINA EITAN ; PARKER DANIEL J ; PARKER DANIEL J AND ; PAT BOWMAN ; ROGER JONES ; SAMACHA SOMTRAKOOL ; SCHEELE ED ; SHEMLA DAVID ; SOMTRAKOOL SAMACHA ; TOM HEIL

**Inventor(s):** RODGER JONES

**Agent(s):** SHELSTON IP; SHELSTON IP PTY LTD; MACRAE AND CO; EITAN MEHULAL AND SADOT; PEARL COHEN ZEDEK LATZER BARATZ; HARNESS DICKEY AND PIERCE

PLC

**International class (IPC 8–9):** A61G17/00 A61G17/007 A61G17/013 G06F13/38 H04L12/28 H04L12/54 H04L12/56 H04L12/933 (Advanced/Invention);
A61G17/007 H04L12/46 H04L12/931 H04L12/935 H04L12/947 (Advanced/Non–invention);
A61G17/00 A61G17/007 G06F13/38 H04L12/28 H04L12/54 H04L12/56 (Core/Invention);
H04L12/46 (Core/Non–invention);
H04L (Subclass/Invention)

**International class (IPC 1–7):** A61G17/00 A61G17/007 A61G17/013 H04L12/28 H04L12/54 H04L12/56

**CPC:** G06F13/385 H04L12/46 H04L49/101 H04L49/15 H04L49/25 H04L49/3009 H04L49/3018 H04L49/3027 H04L49/501 H04L49/505 A61G17/007 A61G17/00 A61G17/004

**European class:** A61G17/00 G06F13/38A2 H04L49/10A H04L49/15 K61G17/00Z10 T04L12/46 T04L49/15 T04L49/25 T04L49/30A T04L49/30B T04L49/30C T04L49/50A T04L49/50C

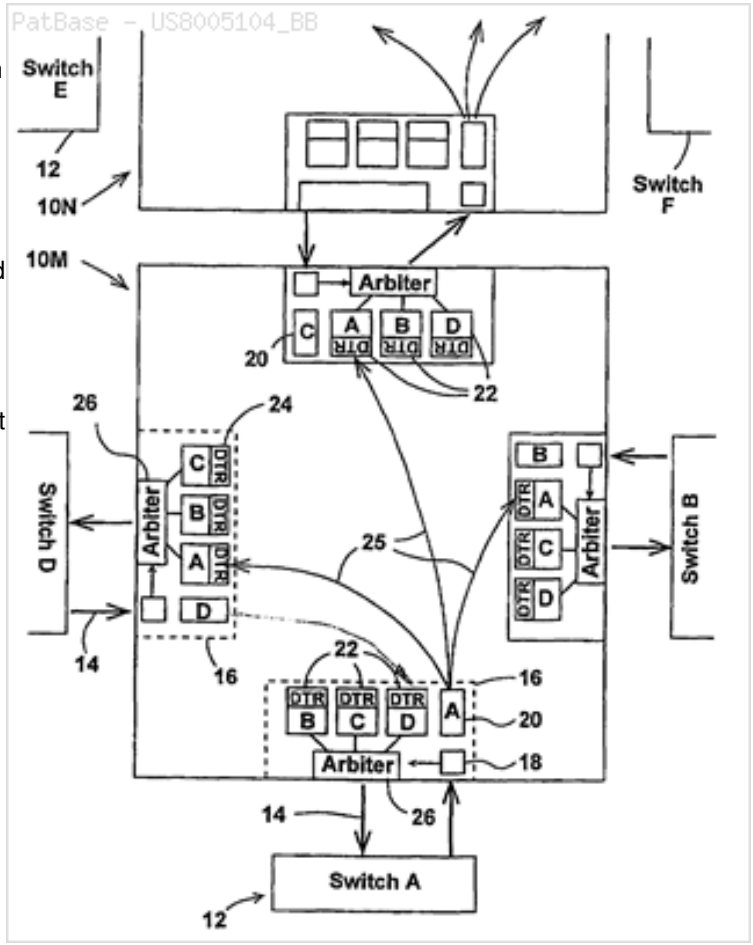
**US class:** 220/4.33 220/6 220/7 27/1 27/10 27/4 27/4P 370/401 370/401P 370/413 370/416 370/419 370/419P 370/428 375/222

Classification Explorer

**Cited documents:** US7477652 BB, US6967962 BA, US6614796 BA, US6388993 BA, US6370148 BA, US6353618 BA, US6314501 BA, US6226292 BA, US621044 A, US6205542 BA, US6192422 BA, US6157967 A, US6067298 A, US6032205 A, US5996828 A, US5964014 A, US5960978 A, US5923660 A, US5813100 A, US5729921 A, US5727291 A, US5722551 A, US5720403 A, US5709016 A, US5661879 A, US5638973 A, US5622276 A, US5586679 A, US5431336 A, US5429261 A, US5307545 A, US5253763 A, US5179669 A, US5037027 A, US5036979 A, US4922348 A, US4807808 A, US4517713 A, US4214669 A, US4151630 A, US414177 A, US4135279 A, US3989157 A, US3570698 A, US3266656 A, US2914210 A, US2221504 A, US2180229 A, US1989962 A, US1828088 A, US1378614 A, US1003107 A, GB517616 A, GB233946 A, GB1057318 A,

**Forward Citations:** WO13064603, US9078798, US8997319, US8937964, US8893357, US8739375, US8677423, US8601519, US8375534, US8079119, US8005104, US7738474, US7477652, US7377016, US7350278, US7322079, US7263751, US7249403, US7249402, US7234211, US7215673, US7213311, US7204003, US6694579, US6502287, US2016046405, US2015200874, US2014123450, US2014034595, US2013074298, US2012167359, US2012073098, US2010263177, US2010246595, US2010088866, US2009109989, US2009071957, US2008277392, US2007280224, US2007094855, US2005232288, US2005144821, US2005138782, US2005097388, US2005066489, US2005062435, US2005060855, US2005060852, US2005055813, US2005050701, US2005050700, US2004081184, US2002097735, GB2456309, ES2259577, EP2854042, EP1475065,

**Abstract:**
Source: US2002053120A A cremation container foldable into a compact configuration for shipping purposes and unfoldable and erectable at its destination comprises a bottom, a pair of side walls pivoted relative to the bottom, a pair of end walls pivoted relative to the bottom, an angle interconnecting adjacent end edges of adjacent ones of the side and end walls, and a cover removably positionable atop the pair of side walls and end walls. Each angle includes slotted legs which receive adjacent end edges of adjacent ones of the side and end walls. Each slotted leg of each angle includes a dowel pin extending transversely therethrough, and a top edge of each of the adjacent end edges of the adjacent ones of the side and end walls includes a notch therein for receiving a respective dowel pin. Handles are secured to the side base mold frame members. Each of a pair of covers comprises opposed sides and opposed ends and a depending lip secured to each opposed side but to only one end.



0) US4431326A – PAINT APPLICATOR AND CONTAINER

**34) Family number: 16837566** (US4431326A) © PatBase

**Title:** Paint applicator and container

**Priority:** CA19810387456 19811007 EP19810304648 19811007 GB19810030193 19811006 GB19800032485 19801008

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| AT13019 E | 19850515 | AT19810304648T | 19811007 |
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| EP0050444 B1 | 19850502 | EP19810304648 | 19811007 |
| ES269155 U | 19830616 | ES19810269155U | 19811007 |
| ES269155 Y | 19840101 | ES19810269155U | 19811007 |
| ES269156 U | 19830616 | ES19810269156U | 19811007 |
| ES269156 Y | 19840101 | ES19810269156U | 19811007 |
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| PT73777 B | 19830201 | PT19810073777 | 19811006 |
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| PT73778 B | 19830201 | PT19810073778 | 19811006 |
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| ZA8106860 A | 19821229 | ZA19810006860 | 19811005 |
| ZA8106861 A | 19821229 | ZA19810006861 | 19811005 |

**Probable Assignee:** BLACK AND DECKER INC A CORP OF DE

**Assignee(s):**(std)**:** BERGER JENSON ; BERGER JENSON AND NICHOLSON LTD ; BLACK AND DECKER INC ; BLACK AND DECKER BERGER JENSON A ; BURATSUKU ANDO DETSUKAA ; BLACK AND DECKER LTD ; BERGER JENSEN AND NICHOLSON LTD ; BLACK AND DECKER ; BERGER JENSON AND NICHOLSON LTD BLACK AND DECKE ; BLACK AND DECKER BERGER JENSON AND NICHOLSON ; BLACK AND DECKER BERGER JENSON AND NICHOLSON LTD ; BLACK AND DECKER INC BERGER JENSON AND NICHOLSON ; BERGER JENSEN AND NICHOLSON LI ; NICHOLSON LTD

**Assignee(s):** BLACK AND DECKER INC BERGER JENSON AND NICHOLSON LIMITED ; BRAITHWAITE JOHN D ; BAAGAA JIENSON ANDO NIKORUSON LTD ; NICHOLSON BERGER HOUSE BERKELEY SQUARE LONDON ENGL ; NICHOLSON A BRITISH CO LTD ; PRIOR JAMES ; KING DERRICK O ; WILLIAMS SIDNEY J ; BLACK AND DECKER INC A CORP OF DE ; BERGER JENSEN AND NICHOLSON LIMITED ; BLACK AND DECKER INC BERGER JENSON AND NICHOLSON L ; BERGER JENSON AND NICHOLSON LTD BLACK AND DECKER ; BERGER JENSON AND NICHOLSON LIMITED ; BLACK AND DECKER CANNON LANE MAIDENHEAD BERKSHIRE ; JENSON BERGER ; BURATSUKU ANDO DETSUKAA INC

**Inventor(s):**(std)**:** BRAITHWAITE J D ; BRAITHWAITE JD ; BRAITHWAITE JOHN D ; BRAITHWAITE JOHN DAVID ; DERITSUKU OOEN KINGU ; DERRICK OWEN KING ; JAMES PRIOR ; JIEEMUZU PURAIYAA ; JIYON DEBITSUDO PUREISUUEITO ; JOHN DAVID BRAITHWAITE ; JON DEBITSUDO PUREISUEITO ; KING D O ; KING DERRICK O ; KING DERRICK OWEN ; KING DO ; PRIOR J ; PRIOR JAMES ; SHIDONII JIYON UIRIAMUSU ; SHIDONII JON UIRIAMUSU ; SIDNEY JOHN WILLIAMS ; WILLIAMS S J ; WILLIAMS SIDNEY J ; WILLIAMS SIDNEY JOHN ; WILLIAMS SJ

**Agent(s):** DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; FETHERSTONHAUGH AND CO

**Designated states:** AT BE DE FR GB IT NL SE

**International class** (IPC 8–9)**:** B05C1/00 B05C1/06 B05C11/10 B05C17/00 B05C21/00 B32B1/02 B44D3/00 B44D3/12 B65D1/12 B65D41/28 B65D8/04 (Advanced/Invention);
B05C11/10 B65D8/04 (Advanced/Non–invention);
B05C11/10 B05C17/00 B05C21/00 B32B1/00 B44D3/00 B44D3/12 B65D1/00 B65D41/02 B65D8/04 (Core/Invention)

**International class** (IPC 1–7)**:** A46B11/02 B05B9/03 B05C1/00 B05C1/06 B05C11/04 B05C11/10 B05C11/11 B05C17/00 B05C21/00 B05D B32B1/02 B44D3/00 B44D3/12 B65D1/12 B65D41/28 B65D47/00 B65D77/04 B65D8/00 B65D8/04 B65D83/14

**CPC:** B05C17/002 B44D3/00 B44D3/12

**European class:** B05C17/00B B44D3/00 B44D3/12

**US class:** 220/254 220/254.7 220/306 220/606 220/70 222/396 222/397 222/399 401/146 401/187 401/188R

Classification Explorer

**Cited documents:** WO8000315 A1, US4422788 A, US4003505 A, US3895736 A, US3871541 A, US3861564 A, US3776645 A, US3705666 A, US3693829 A, US3676010 A, US3672547 A, US3640630 A, US3603694 A, US3572540 A, US3558010 A, US3516571 A, US3352457 A, US3317089 A, US3021976 A, US3006515 A, US2829801 A, US2790475 A, US2753080 A, US2690278 A, US2160043 A, GB847353 A, GB2066932 A1, GB1221792 A, FR2301306 A1, FR2216777 A1, FR2109072 A5, FR2006896 A1, FR1449554 A, FR1355341 A,

**Forward Citations:** USD782768, USD778519, USD636549, USD631219, USD623373, USD573475, USD563228, USD511101, USD510866, US8424483, US8408157, US8276538, US7246728, US7237695, US6983862, US6539949, US5702214, US5487782, US4878595, US4854472, US4699189, US4574988, US4519219, US2016214633, US2014361026, US2008223292, US2006273092, US2005274747, US2005247744, US2002195471, JP4386785, JP3070783, JP2007055690, JP2004331225, GB2461269, GB2461269, GB2251431, EP0354762, EP0289125, EP0289125, DE9013390, DE3309227, DE20215848, DE20215847, DE10327065,

**Abstract:**
Source: US4431326A A liquid container containing liquid, such as paint, to be applied to a surface includes a radially inwardly facing sealing wall on the top of the container extending in a complete circle around the center of the container. An aperture is provided in the top of the container inside the sealing wall. The sealing wall has a depth of at least 4 mm and there is a free space projecting at least 4 mm radially inwardly of the sealing wall and extending in a complete circle around the inside of the sealing wall. In use the container is housed in an outer vessel, a conduit passes through the outer vessel and the top of the container to the bottom of the container, and a pressurizing assembly is provided for applying pressure inside the container. The outer vessel includes a circular seal member mounted on a radially outwardly facing wall extending downwardly from the top of the vessel and cooperating with the sealing wall on the liquid container.

PatBase - US4457642_A



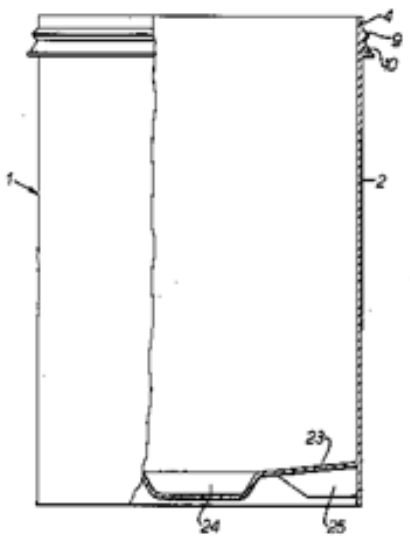



FIG. 1.

**35) Family number: 9041023** (US4708704A) © PatBase

**Title:** PROCESS FOR PRODUCING PACKS WITH ROUNDED OR BEVELLED EDGES

**Priority:**

CA19860505151 19860326
CA19860510377 19860530
EP19860103727 19860319
DE19853515775 19850502
DE19863660655 19860515
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CA19860507973 19860430
CA19920616359 19920427
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DE19863660668 19860319
CA19865103771 19860530
CA19860616359 19860530
DE19863660131 19860422
DE19863660532 19860415
US19860873018 19860611

**Family:**

| Publication number | Publication date | Application number | Application date |
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| US4843798 A | 19890704 | US19880147841 | 19880125 | |

**Probable Assignee:** FOCKE AND CO

**Assignee(s):**(std)**:** FOCK AND CO ; FOCKE AND CO

**Assignee(s):** FOCKE AND CO (GMBH AND CO) ; FOCKE AND CO GMBH AND CO ; FOCKE AND CO GMBH AND CO 2810 VERDEN DE ; FOCKE AND CO AND CO GMBH ; FOCKE AND CO G M B H AND CO ; FOCKE HEINZ ; MUTSCHALL HUGO ; LIEDTKE KURT

**Inventor(s):**(std)**:** FOCK HEINZ ; FOCKE HEINZ ; FUUGO MUUTOSHIYARU ; HAINTSU FUOTSUKE ; KURUTO RIITOKE ; LIEDTKE KURT ; MUTSCHALL HUGO

**Inventor(s):** MUTSCHALL HUGO 2816 KIRCHLINTELN DE ; HEINZ FOCK ; HEINZ FOCKE ; HUGO MUTSCHALL ; KURT LIEDTKE ; FOCKE HEINZ 2810 VERDEN DE ; FUUGO MUUTOSHARU

**Agent(s):** RIDOUT AND MAYBEE LLP

**Designated states:** DE FR GB IT NL SE

**International class** (IPC 8–9)**:** B31B1/00 B31B1/26 B31B1/34 B31B3/00 B31B3/28 B65B19/02 B65B19/20 B65B19/22 B65D3/02 B65D43/14 B65D5/18 B65D5/66 B65D85/10 (Advanced/Invention); B31B1/00 B31B3/00 B65B19/00 B65D3/00 B65D5/00 B65D5/64 B65D85/08 (Core/Invention)

**International class** (IPC 1–7)**:** B31B1/00 B31B1/26 B31B1/34 B31B3/00 B31B3/28 B31B3/44 B31B3/74 B31B5/00 B65B19/00 B65B19/02 B65B19/20 B65B19/22 B65B47/00 B65B97/04 B65D3/02 B65D43/14 B65D5/00 B65D5/18 B65D5/36 B65D5/66 B65D85/05 B65D85/08 B65D85/10 B65D85/12

**CPC:** Y10S493/911 B65D85/1045 B29K2105/04 B65B19/20 B65D2301/10 B31B2201/2654

**European class:** B31B1/44 B31B3/00 B65B19/20 B65D85/10G4 L29K105/04 L31B201/26C L65D301/10

**US class:** 206/271 206/273 229/106 229/160.1 493/151 493/162 493/169 493/176 493/395 493/408 493/911 53/234 53/453 53/456 53/462 53/579

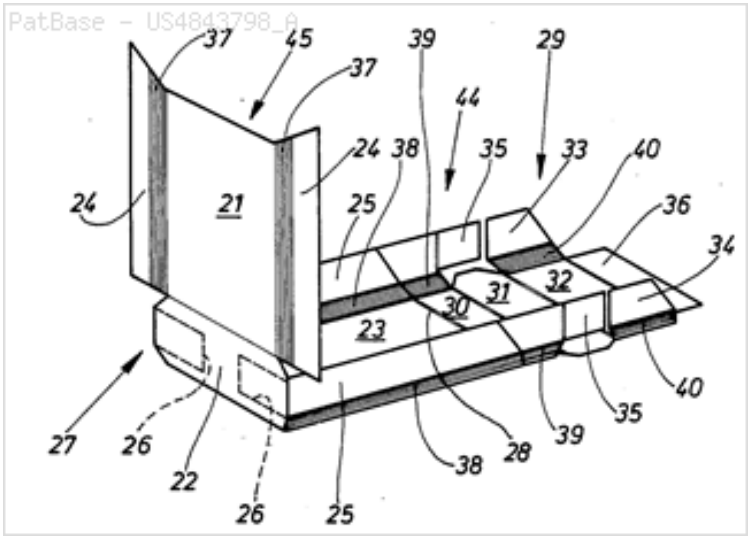
Classification Explorer

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**Forward Citations:** WO9965796, WO9915436, WO9818683, WO9429193, WO9014278, WO16066989, WO13094034, WO12019859, WO11131274, WO11106922, WO11106921, WO11054650, WO09109396, WO05007538, WO03025833, WO03024839, WO0232786, WO02079051, WO0115999, WO0048926, WO0043289, USD778150, USD668540, USD635851, USD635850, USD624816, USD610303, USD608048, USD596348, USD595453, USD585596, USD583096, USD575452, USD575451, USD575450, USD530447, USD510777, USD454410, USD438106, US9469432, US9452861, US9382062, US9162782, US9139354, US9073659, US9061792, US8925288, US8887906,

US8608051, US8579778, US8418846, US8413806, US8343023, US7935041, US7815559, US7669387, US7617930, US7562772, US7506755, US7467711, US7455176, US7360646, US7320399, US7198593, US7146777, US7104943, US7001320, US6755300, US6742651, US6715605, US6694708, US6694703, US6669015, US6591982, US6505732, US6457580, US6370846, US6360943, US6343691, US6334532, US6311834, US6276600, US6247548, US6106450, US6105856, US6021893, US5983595, US5970682, US5964345, US5957280, US5924627, US5921384, US5904244, US5896984, US5833060, US5806671, US5788066, US5766121, US5674542, US5656084, US5630508, US5570779, US5558611, US5549537, US5529180, US5487468, US5480025, US5478011, US5462223, US5435440, US5392905, US5366077, US5363955, US5358104, US5341925, US5323957, US5316811, US5314062, US5307925, US5292301, US5261209, US5236084, US5228266, US5207322, US5203495, US5187920, US5179817, US5178272, US5160024, US5152737, US5147271, US5143282, US5137148, US5129513, US5113638, US5092107, US5073162, US5066270, US5064409, US5044550, US5035102, US5024376, US4989728, US4979349, US4918908, US4895251, US4843798, US2013341380, US2013333338, US2011302886, US2011281705, US2011155596, US2010126889, US2010056352, US2010044423, US2010012339, US2009084694, US2008283427, US2008230410, US2008099353, US2008093234, US2008093233, US2007284267, US2007071305, US2006283732, US2006266662, US2006226208, US2006191986, US2006169605, US2006006078, US2005235792, US2005096203, US2005082178, US2005022470, US2005016876, US2004217023, US2004173668, US2004142804, US2003139273, US2003093977, TR26841, RU2617378, KR100902858, JP5112350, JP5085536, JP4239442, JP4047677, JP3304991, JP3226425, JP2045316, JP2012511475, JP2011529421, JP2003104317, GB2292726, GB2292726, FR2618754, EP2944575, EP2311632, EP2153943, EP2125539, EP2022729, EP2022729, EP1615830, EP1615830, EP1558503, EP1449791, EP1418045, EP1409370, EP1396430, EP1396430, EP1361988, EP1293431, EP1208049, EP1163170, EP1149690, EP1140661, EP1103369, EP1103369, EP1084955, EP1015353, EP0900736, EP0801010, EP0801010, EP0769457, EP0667231, EP0667230, EP0653295, EP0650907, EP0633202, EP0543538, EP0507112, EP0434962, EP0433657, EP0414532, EP0362154, DE8703278, DE4404289, DE4404287, DE4404278, DE4142022, DE4109702, DE4103612, DE4102005, DE4032870, DE4013264, DE3941844, DE3926621, DE3903201, DE3815275, DE3738102, DE3738102, DE3645111, DE3624345, DE3615827, DE19957058, DE19944812, DE19826663, DE19733604, DE19713231, DE19644759, DE19614043, DE19614043, DE19529798, DE19519505, DE102010018238, DE102009021146, DE102008023782, DE102008013173, DE102007046423, DE102004045279, DE102004024431, DE10115563, DE10106547, DE10020858, CN105073604, CN105073604, CN104884356, CN102917952, CN102917952, CN102615157, BG65386, AU646282, AU638358, AU638358, AU637131, AT512357, AT512357,

**Abstract:**
Source: US4708704A Process and apparatus for forming cigarette packs having rounded or beveled longitudinal edges includes forming the contoured edges on a flat blank at a shaping station as a preliminary shaping step. The shaping station includes a shaping mandrel or plate having rounded or beveled edges and shaping rollers or strips for wrapping the blank about the plate to produce the desired longitudinal edges contours.



0) US2006148062A – SYSTEMS AND METHODS FOR EX–VIVO ORGAN CARE

**36) Family number: 32840542** (US2006148062A) © PatBase

**Title:** SYSTEMS AND METHODS FOR EX–VIVO ORGAN CARE

**Priority:**

| | | | | | |
|---|---|---|---|---|---|
| AU20050294206 | 20051007 | AU20080260409 | 20080424 | AU20120216796 | 20120912 |
| AU20130216566 | 20130812 | AU20140256394 | 20141031 | AU20150246083 | 20151020 |
| JP20070535847 | 20051007 | CN200880020749 | 20080424 | JP20070535847T | 20051007 |
| CN200580042038 | 20051007 | AU20160201793 | 20160322 | CA20162685302 | 20160803 |
| CA20082685302 | 20080424 | AU20160222388 | 20160831 | US20050245957 | 20051007 |
| US20050245958 | 20051007 | NZ20050554543 | 20051007 | US20040616835P | 20041007 |
| NZ20080580648 | 20080424 | JP20100506499 | 20080424 | NZ20080597482 | 20080424 |
| NZ20050600702 | 20051007 | JP20100506499T | 20080424 | NZ20080608461 | 20080424 |
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| US20050246013 | 20051007 | US20050246903 | 20051007 | US20050246919 | 20051007 |
| US20050246905 | 20051007 | WO2008US61454 | 20080424 | WO2005US36211 | 20051007 |
| US20070790405 | 20070425 | US20050246902 | 20051007 | US20050694971P | 20050628 |
| US20050725168P | 20051006 | US20120587810 | 20120816 | US20150734769 | 20150609 |
| US20150939845 | 20151112 | | | | |

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
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| AU2005294206 AA | 20060420 | AU20050294206 | 20051007 |
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**Designated states:** AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

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Classification Explorer

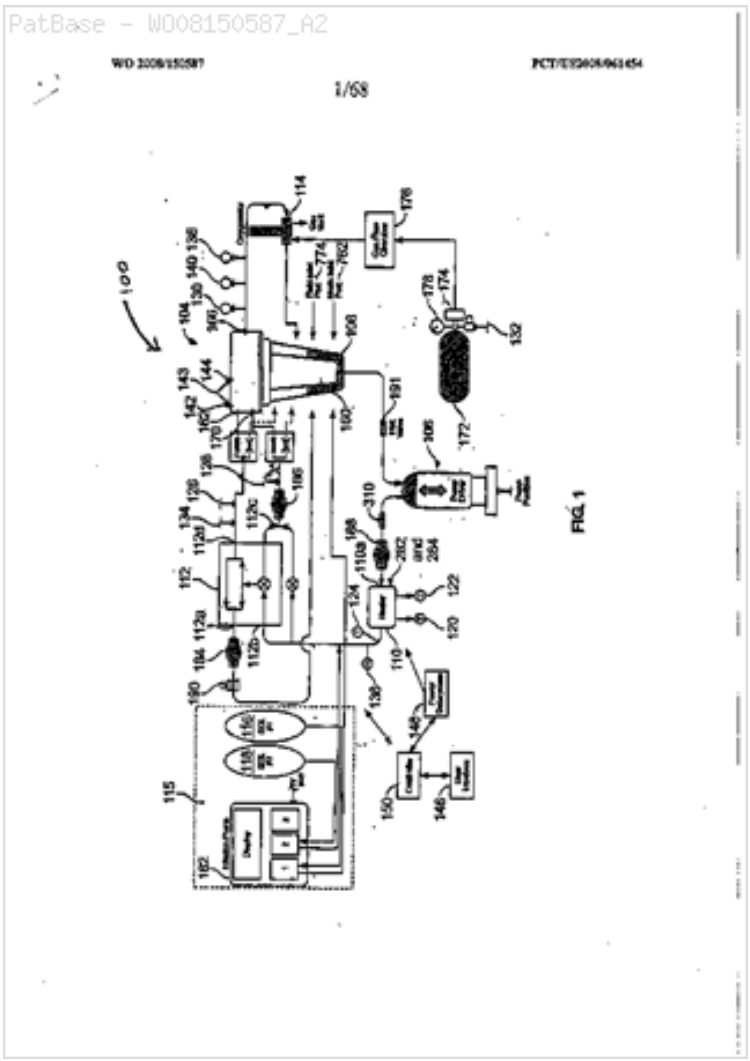
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**Abstract:**
Source: US2006148062A The invention provides, in various embodiments, systems, devices and methods relating to ex−vivo organ care. In certain embodiments, the invention relates to maintaining an organ ex−vivo at near−physiologic conditions.



0) US2007016254A – METHOD AND APPARATUS FOR TREATING GLAND DYSFUNC...

**37) Family number: 34107530** (US2007016254A) © PatBase

**Title:** METHOD AND APPARATUS FOR TREATING GLAND DYSFUNCTION EMPLOYING HEATED MEDIUM

**Priority:**

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**Designated states:** AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

**International class (IPC 8–9):** A61B1/06 A61B17/22 A61B18/02 A61B18/04 A61B3/10 A61B3/14 A61B6/00 A61B7/00 A61B8/00 A61F7/00 A61F7/02 A61F7/03 A61F7/08 A61F7/12 A61F9/00 A61F9/007 A61F9/04 A61H1/00 A61H15/02 A61H23/02 A61H7/00 A61K31/65 A61K38/18 A61K38/43 A61K45/00 A61M A61M35/00 A61M37/00 A61N1/39 A61N1/40 A61N5/00 A61N5/02 A61N5/06 A61N7/00 A61N7/02 A61P27/02 B08B3/10 G01N33/22 (Advanced/Invention); A61B17/00 A61B18/04 A61B18/12 A61B3/10 A61F7/00 A61H15/00 A61N7/00 (Advanced/Non–invention); A61B18/00 A61B18/04 A61B3/10 A61B3/14 A61B6/00 A61B8/00 A61F7/00 A61F7/08 A61F7/12 A61F9/00 A61F9/007 A61F9/04 A61H23/02 A61H7/00 A61K31/65 A61K38/18 A61K38/43 A61K45/00 A61M35/00 A61N1/39 A61P27/00 B08B3/10 (Core/Invention); A61M (Subclass/Invention)

**International class (IPC 1–7):** A61F7/00 A61M35/00 B08B3/10

**CPC:** A61F9/0008 A61F9/0026 A61H35/02 A61H2201/0221 A61H2201/1607 A61H2201/165 A61H2205/022 A61H7/001 A61F9/00 A61H2201/1604 A61B17/3203 A61B18/04 A61F2007/0086 A61H1/008 A61B18/10 A61B2018/00642 A61B2018/00791 A61F9/00781 G01N33/227 A61F2007/0088 A61F9/0079 A61N5/0625 A61B2017/22082 A61F2007/0282 A61F2007/0261 A61B17/22004 A61F7/02 A61N5/025 A61N2005/0643 A61N2005/0659 A61N2005/067 A61B5/415 A61F7/12 A61H7/00 A61F9/007 A61N1/403 G01N21/78 A61F9/00718 Y10T436/170769 Y10T436/173076 Y10T436/173845 Y10T436/178459 Y10T436/19 Y10T436/206664 A61B5/0066 A61B3/10 A61B5/0073 A61B5/411 A61B5/4261 A61B18/02 A61K31/65 A61K38/1841 A61B5/4836 A61B18/12 A61B2018/046 A61B2018/048 A61B2562/0247 A61B2562/0271 A61F2007/0004 A61F2007/0059 A61H7/003 A61H7/005 A61H9/0057 A61H9/0071 A61H9/0078 A61H23/0236 A61H23/0245 A61H23/0263 A61H39/086 A61H2015/0014 A61H2201/0176 A61H2201/0207 A61H2201/0214 A61H2201/5038 A61H2201/5043 A61H2205/024 A61N7/00 A61F2007/0091 A61F2007/0096 A61F2007/0249 A61B18/08 A61B2017/00084 A61F7/007 A61F2007/0071 A61F9/00772 A61B17/22

**European class:** A61B3/10 A61B3/10D A61B3/10H A61B3/14 A61B5/41B A61F7/00E A61F7/02 A61F7/12 A61F9/00 A61F9/007T A61F9/007V A61F9/00B A61H35/02 A61H7/00 A61H7/00B K61B17/00C1T K61B17/3203 K61B18/00H12B K61B18/00H2 K61B18/04 K61B18/04C2 K61B18/04C4 K61B18/10 K61B18/12 K61B5/00P6 K61B5/42M K61F7/00A2B K61F7/00D K61F7/00E K61F7/00E1 K61F7/00G K61F7/02M K61F9/007T K61F9/00B4 K61H15/00A3C K61H201/02H K61H201/02M K61H201/16A2 K61H201/16A20 K61H201/16A2A K61H205/02B K61H205/02B4 K61N7/00

**US class:** 1/1 128/898 128/898S 424/94.1 424/94.100S 436/107 436/110 436/111 436/117 436/124 436/135 514/12 514/152 514/152S 514/2.4 514/2.400S 514/20.8 514/20.800S 514/7.4 514/7.400S 514/8.9 514/8.900S 600/249 600/249P 600/407 600/425 600/427 600/437 600/443 600/443P 600/452 600/473 600/473P 600/474 600/476 601/13 601/15 601/15P 601/15S 601/17 601/17P 601/18 601/19 601/19S 601/2 601/3 601/3P 601/5 604/19 604/20 604/20P 604/21 604/289 604/289P 604/290 604/290P 604/291 604/291S 604/294 604/294P 604/295 604/297 604/298 604/300 604/301 604/540 604/540S 604/543 604/543S 606/127 606/127S 606/128 606/128S 606/162 606/2 606/205 606/27 606/27P 606/27S 606/28 606/28S 606/2S 606/33 606/33S 607/1 607/100 607/100S 607/101 607/102 607/104 607/104P 607/104S 607/108 607/108P 607/108S 607/109 607/109P 607/1P 607/88 607/89 607/96 607/96P 607/99 607/99S

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**Forward Citations:** WO17048731, WO16176175, WO16109803, WO16070134, WO16022596, WO15167623, WO15119715, WO15006115, WO14179795, WO14179356, WO14081528, WO14031857, WO14031857, WO13179178, WO13149318, WO13114127, WO13109193, WO13103413, WO13006574, WO13003594, WO13003594, WO12036931, WO11104702, WO10149959, WO10042398, WO09155114, WO09066077, WO09064834, WO09064834, WO08024100, WO08024100, USD638128, USD617443, USD614303, USD613408, US9662008, US9642743, US9642740, US9642520, US9610196, US9592151, US9579234, US9572963, US9554940, US9554698, US9510973, US9510972, US9510844, US9498380, US9463201, US9445939, US9445767, US9445725, US9440065, US9408572, US9408534, US9402767, US9398856, US9358156, US9357915, US9351874, US9339177, US9329001, US9320439, US9314369, US9308126, US9301719, US9265956, US9232620, US9226852, US9226772, US9216028, US9211213, US9155655, US9125724, US9095723, US9066783, US9066750, US9060843, US9050169, US9039718, US9039650, US9033159, US9011349, US8996137, US8961447, US8950405, US8918181, US8915592, US8915253, US8906035, US8888286, US8832872, US8808222, US8773778, US8746883, US8721572, US8721562, US8685073, US8679003, US8652150, US8636786, US8632578, US8632193, US8628504, US8617229, US8579897, US8567678, US8523928, US8517944, US8502877, US8491508, US8480657, US8409200, US8363129, US8361066, US8357128, US8334500, US8310583, US8262655, US8241204, US8187311, US8187310, US8149298, US8137390, US8128674, US8128673, US8125537, US8083787, US8075572, US8059955, US8044331, US8037591, US8029504, US8025689, US8007524, US7981147, US7981146, US7981145, US7981095, US7976573, US7944490, US7916904, US7885489, US7712901, US2017024907, US2016174833, US2016084772, US2015320590, US2015289878, US2015182415, US2015174425, US2015148711, US2015141837, US2015100001, US2015094703, US2015057701, US2015057583, US2014378878, US2014330129, US2014214062, US2014171821, US2014160264, US2014142663, US2014062754, US2014052164, US2014031845, US2013238015, US2013172829, US2013148784, US2013110101, US2013087546, US2013079660, US2013053733, US2012327969, US2012245661, US2012240328, US2012167882, US2012165708,

US2012089021, US2012065556, US2012041520, US2012019919, US2012016275, US2011273550, US2011178585, US2011122281, US2011115891, US2011098694, US2011092923, US2011087138, US2011009874, US2010298642, US2010292630, US2010214438, US2010198244, US2010191267, US2010191050, US2010179530, US2010179510, US2010152539, US2010131005, US2010130975, US2010100029, US2010081877, US2010079658, US2010063538, US2010056861, US2010053361, US2010049190, US2010044555, US2010010511, US2010010303, US2010010299, US2010001071, US2009322898, US2009321618, US2009306658, US2009299409, US2009299385, US2009299362, US2009299143, US2009299135, US2009287236, US2009227828, US2009143794, US2009131933, US2009131932, US2009131751, US2009112063, US2009066811, US2009062795, US2009062792, US2009062788, US2009043365, US2009002523, US2008269783, US2008232650, US2008221619, US2008200933, US2008200912, US2008200911, US2008200755, US2008137034, US2008114423, US2008084872, US2008080019, US2008074507, US2008051741, US2008043126, US2008007797, US2007219434, US2007016256, US2006210616, KR101259056, JP5820530, JP2015503417, JP2015221379, JP2014530031, JP2014514038, JP2012530580, JP2012228309, JP2011244923, JP2011244921, JP2011188958, GB2528933, GB2483838, GB2483838, GB2467509, GB2467509, EP2991539, EP2922511, EP2922511, EP2853216, EP2833971, EP2800543, EP2616132, EP2291156, EP2222355, EP2121109, EP2121109, EP2101697, CN105792729, CN105520805, CN105287178, CN104510525, CN104334129, CN104203190, CN103919532, CN103610573, CN103565620, CN103565620, CN103108669, CN102988163, CN102781368, CN102600008, CN102600008, CN102204854, CN102188305, CN102008366, AU2011302478, AU2009260440,

**Abstract:**
Source: US2007016254A A method and apparatus for treating gland dysfunction caused by gland obstruction in order to restore the natural flow of secretion from the gland comprises the application of a combination of energy, suction, vibration, heat, aspiration, chemical agents and pharmacological agents to loosen and thereafter remove the obstructive material.

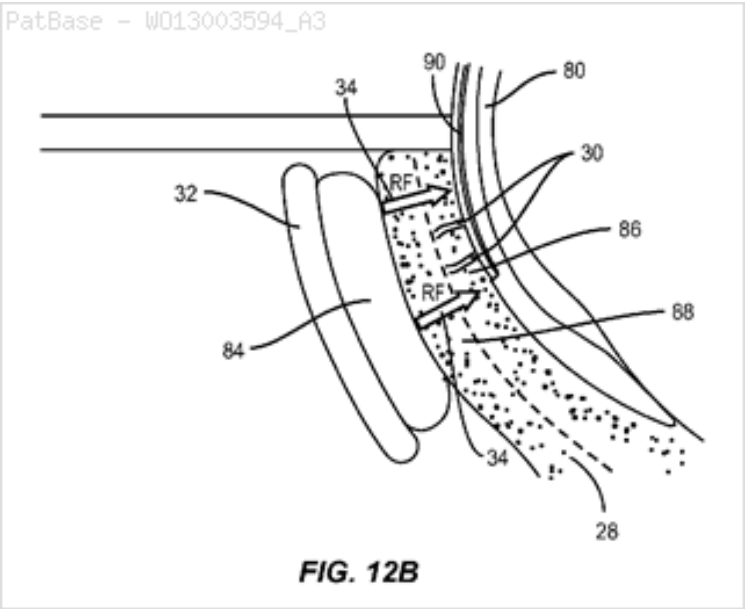



FIG. 12B

0) US2008019885A – MULTIAUTOCLAVE WITH SET OF VESSELS FOR COMBINAT...

**38) Family number: 41119402** (US2008019885A) © PatBase

**Title:** MULTIAUTOCLAVE WITH SET OF VESSELS FOR COMBINATORIAL SYNTHESIS OF ZEOLITES AND OTHER MATERIALS

**Priority:** US20040834648 20040429 US20070831107 20070731 US20070831112 20070731 US20070831116 20070731

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| US2008019885 AA | 20080124 | US20070831107 | 20070731 |
| US2008020943 AA | 20080124 | US20070831112 | 20070731 |
| US2008020944 AA | 20080124 | US20070831116 | 20070731 |
| US7341872 BA | 20080311 | US20040834648 | 20040429 |

**Probable Assignee:** UOP LLC

**Assignee(s):**(std)**:** ANDERSON BRENT J ; BRICKER MAUREEN L ; GILLESPIE RALPH D ; UOP LLC

**Inventor(s):**(std)**:** ANDERSON BRENT J ; BRICKER MAUREEN L ; GILLESPIE RALPH D

**Inventor(s):** ANDERSON BRENT ; GILLESPIE RALPH ; BRICKER MAUREEN

**Agent(s):** HONEYWELL INTELLECTUAL PROPERTY INC, PATENT SERVICES; HONEYWELL INTELLECTUAL PROPERTY INC PATENT SERVICES; MAAS MARYANN; MARYANN

**International class** (IPC 8–9)**:** B01J19/02 C40B50/04 C40B50/18 G01N1/00 G01N15/06 G01N33/00 G01N35/00 G01N35/02 (Advanced/Invention); B01J19/02 C40B50/04 C40B50/14 G01N1/00 G01N15/06 G01N33/00 G01N35/00 G01N35/02 (Core/Invention)

**CPC:** Y10T436/11 Y10T436/25 B01J19/0046 B01J2219/00283 B01J2219/00333 B01J2219/00477 B01J2219/00484 B01J2219/00495 B01J2219/00585 B01J2219/00596 B01J2219/00599 B01J2219/00601 B01J2219/00747 B01J2219/00754 Y10T436/113332 Y10T436/114165

**European class:** B01J19/00C L01J219/00C10D2 L01J219/00C10D4D L01J219/00C2B10B L01J219/00C2B2B L01J219/00C2I L01J219/00C2J4 L01J219/00C2K L01J219/00C4B L01J219/00C4H L01J219/00C4J L01J219/00C4K

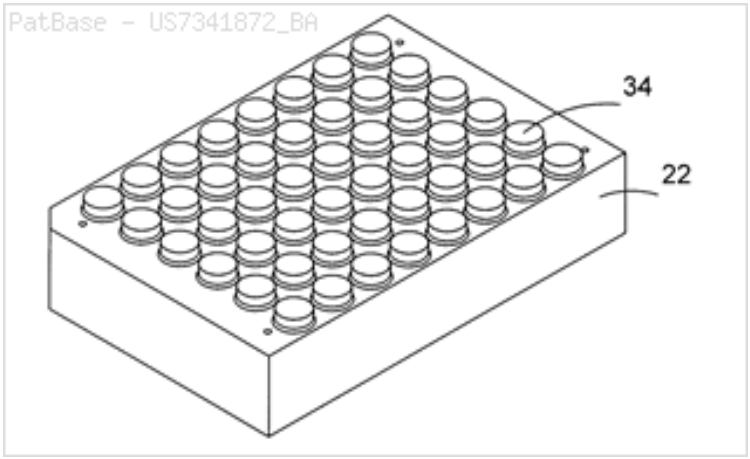
**US class:** 422/102 422/103 422/104 422/129 422/130 422/134 422/136 422/198 422/198P 422/50 422/58 422/62 422/63 422/68.1 422/81 422/82 436/174 436/43 436/47 436/48 506/25 506/25P 506/32 506/32P

Classification Explorer

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**Forward Citations:** WO15147905, WO15147904, USD724196, US7922707, US2008019885, US2006229584,

**Abstract:**
Source: US2008019885A A vessel arrangement having a base and multiple vessels suited for simultaneously conducting a plurality of isolated experimental reactions or treatments at atmospheric process conditions or elevated temperatures and pressure condition has been developed. A component of a first material is introduced into one independent vessel through an opening in its top of the first vessel and another component of a second material is introduced into a different independent vessel through its top. Both vessels are removably located about a base at different first locations. Transformation of the components in the vessels then occurs to produce different materials therein. After completion of the experiments a displacement medium simultaneously urges the vessels from their respective locations about the base for discard or reuse after any necessary cleaning. Typically at least one property of the materials from the vessels is determined either within the vessel or after recovery of the materials.



**39) Family number: 43236041** (US6517866B) © PatBase

**Title:** SERTRALINE SALTS AND SUSTAINED–RELEASE DOSAGE FORMS OF SERTRALINE

**Priority:**

| | | | | | |
|---|---|---|---|---|---|
| AU19980075449 | 19980615 | AU20010095218 | 20011130 | EP19980923020 | 19980615 |
| IL19980133080 | 19980615 | NZ19980501251 | 19980615 | KR19997012073 | 19991220 |
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| US19970051414P | 19970701 | US19970051420P | 19970701 | US19970051498P | 19970701 |

**Family:**

| Publication number | Publication date | Application number | Application date |
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| TR9903280 T2 | 20001121 | TR19990003280T | 19980615 | |
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| US6517866 BA | 20030211 | US19990380897 | 19990907 | |
| UY25067 A1 | 20001229 | UY19980025067 | 19980629 | |
| WO9901121 A1 | 19990114 | WO1998IB00934 | 19980615 | |
| ZA9805707 A | 20000110 | ZA19980005707 | 19980630 | |

**Probable Assignee:** PFIZER

**Assignee(s):**(std)**:** AM ENDE MARY TANYA ; CURATOLO WILLIAM JOHN ; FRIEDMAN HYLAR LEWIS ; FRIESEN DWAYNE THOMAS ; HERBIG SCOTT MAX ; PFIZER ; SHANKER RAVI MYSORE ; WEST JAMES BLAIR ; PFIZER PROD INC ; PFIZER LTD

**Assignee(s):** PFIZER INC. ; PFIZER INC NEW YORK NEW YORK ; PFIZER LIMITED ; PFIZER PRODUCTS INC ; JAMES BLAIR WEST

**Inventor(s):**(std)**:** DWAYNE THOMAS FRIESEN ; BLAIR WEST JAMES ; WILLIAM JOHN CURATOLO ; WEST JAMES WETS ; WEST JAMES BLAIR ; WEST JAMES B ; SHANKER RAVI MYSORE ; SHANKER RAVI MYSHORE ; SHANKER RAVI M ; SHANKAR RAVI MYSORE ; SCOTT MAX HERBIG ; RAVI MYSORE SHANKER ; MAX AM ENDE MARY TANYA CURATOL ; HERBIG SCOTT MAX ; HERBIG SCOTT M ; FRIESEN DWAYNE THOMAS ; FRIESEN DWAYNE T ; FRIEDMAN MARY T AM ENDE WILLIA ; FRIEDMAN HYLAR LEWIS ; FRIEDMAN HYLAR L ; ENDE MARY TANYS AM ; ENDE MARY TANYA ARM ; ENDE MARY TANYA AM ; ENDE MARY T AM ; CURATOLO WILLIAM JOHN ; CURATOLO WILLIAM J ; CURATOLO WILLIAM ; CURATALO WILLIAM JOHN ; AMENDE MARY TANYA ; AM ENDE MARY TANYA ; AM ENDE MARY T ; MA AM ENDE MARY TANYA CURATOLO ; JAMES BLAIR WEST ; HYLAR LEWIS FRIEDMAN ; MARY TANYA AM ENDE

**Inventor(s):** MARY T AM ENDE WILLIAM J CURATOLO HYLAR L FRIEDMAN ; MARY T AM ENDE ; HYLAR L FRIEDMAN ; HERBIG SCOTT MAX AND ; WEST JAMESBLAIR ; SHANKER RAVIMYSORE ; HERBIG SCOTTMAX ; FRIESEN DWAYNETHOMAS ; FRIEDMAN HYLARLEWIS ; CURATOLO WILLIAMJOHN ; AMENDE MARY ; AM ENDE MARY TANYA CURATOLO WILLIAM JOHN... ; MARY TANYA ARM ENDE ; WILLIAM J CURATOLO ; WILLIAM CURATOLO ; MARY TANYA AMENDE

**Agent(s):** SPRUSON AND FERGUSON; ASPEN PHARMA PTY LTD; SMART AND BIGGAR; CARLOS REINALDO OLARTE GARCIA

**Designated states:** AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CU CY CZ DE DK EE ES FI FR GA GB GE GH GM GN GR HU ID IE IL IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MC MD MG MK ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT UA UG US UZ VN YU ZW

**International class (IPC 8–9):** A61K31/135 A61K31/145 A61K9/00 A61K9/16 A61K9/20 A61K9/22 A61K9/26 A61K9/28 A61K9/32 A61K9/50 A61K9/52 A61K9/54 A61P25/00 A61P25/18 A61P25/24 A61P25/30 A61P3/04 A61P37/00 C07C209/00 C07C211/42 C07C233/14 (Advanced/Invention); A61K31/135 A61K9/00 A61K9/16 A61K9/22 A61K9/28 A61K9/50 A61K9/52 (Advanced/Non–invention); A61K31/00 A61K31/135 A61P25/00 C07C209/00 C07C211/00 C07C233/00 (Core/Invention); A61K C07D (Subclass/Invention)

**International class (IPC 1–7):** A61K31/135 A61K31/136 A61K31/137 A61K31/395 A61K9/20 A61K9/22 A61K9/26 A61K9/32 A61K9/44 A61K9/52 A61K9/54 A61P25/00 A61P25/18 A61P25/24 A61P25/30 A61P3/04 A61P37/00 C07C209/00 C07C211/42 C07C233/14 C07D

**CPC:**

A61K9/0004 A61K9/1652 A61K9/2009 A61K9/2013 A61K9/2018 A61K9/2886 A61K9/5047 A61K9/2054 A61K31/135

**European class:** A61K31/135 A61K9/20H6F2 K61K9/00L4 K61K9/16H6F K61K9/20H2 K61K9/20H4 K61K9/20H4B K61K9/28K K61K9/50H6F2B

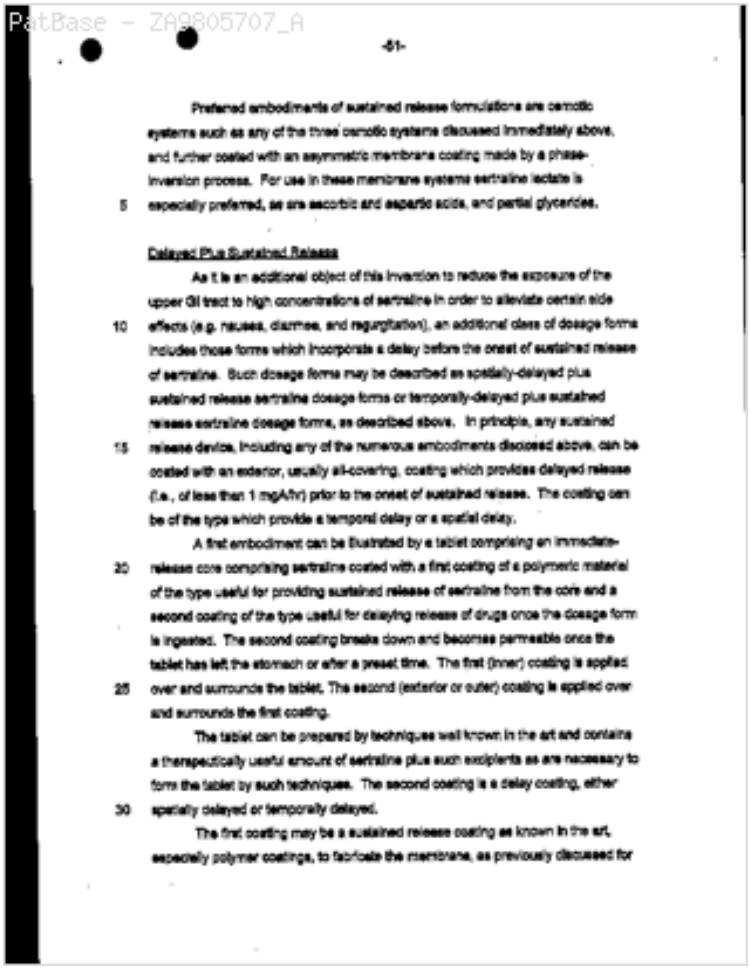
**US class:** 424/457 424/458 424/463 424/468 424/469 424/473 424/474 424/484 424/490

Classification Explorer

**Cited documents:** WO9737640 A2, WO9703670 A1, WO9609047 A1, WO9500154 A1, WO9427589 A2, WO9324154 A1, WO9318755 A1, WO9218005 A1, WO9202215 A1, WO9202212 A2, WO9200103 A1, WO9014077 A1, WO0232918 A2, US5945416 A, US5741807 A, US5637624 A, US5597826 A, US5371092 A, US5248699 A, US5196607 A, US5135947 A, US5130338 A, US5112619 A, US5104899 A, US5061728 A, US5026707 A, US4971998 A, US4962128 A, US4940731 A, US4887617 A, US4876282 A, US4855500 A, US4847092 A, US4839104 A, US4803076 A, US4797286 A, US4792448 A, US4777288 A, US4536518 A, EP0768083 A2, EP0712837 A2, EP0429189 A2, EP0428189 A2, EP0415613 A2, EP0415612 A2, EP0357369 B1, EP0357369 A2, EP0259113 A2, EP0080341 A2,

**Forward Citations:** WO16020936, WO14147526, WO11075799, WO10017821, WO09034431, WO07127216, WO07127216, WO06072878, WO05094794, WO05047229, WO05047229, WO04065348, WO04058229, WO04024130, WO04024130, WO0224160, WO0224160, WO0147498, WO0147498, WO0122944, WO0071099, US9642809, US9592299, US9566245, US9549899, US9504699, US9393203, US9375428, US9358295, US9289449, US9186332, US9044402, US9040085, US9023394, US9005660, US8920838, US8877241, US8808745, US8795727, US8747897, US8735389, US8715728, US8617605, US8609143, US8486446, US8399016, US8377977, US8361497, US8147871, US7893300, US7893053, US7883722, US7718705, US7695734, US7670612, US7550158, US7537784, US7465462, US7338667, US7186863, US7094930, US6899896, US6641840, US6620431, US2011195952, US2011135722, US2010291205, US2009274759, US2008274183, US2008254123, US2008254122, US2008233193, US2007298106, US2007293480, US2007248664, US2007185218, US2007135524, US2007003617, US2006228415, US2005261377, US2005249807, US2005232911, US2005089569, US2005008690, US2004241236, US2004228915, US2004224876, US2004220153, US2004219211, US2004208926, US2004076682, US2004052845, KR101157486, JP4791970, JP2016026155, JP2013139468, JP2009535337, JP2005538106, JP2003510268, JP2002212062, EP2368556, EP2161022, EP1852111, EP1626950, EP1626950, EP1465563, EP1385486, EP1216032, EP1178780, CN104402705, CN101466384, AU782059, AU2008243202,

**Abstract:**
Source: US6517866B Sustained release dosage forms of sertraline which release sertraline at a rate between 1 mgA/hr and 40 mgA/hr. The dosage forms may exhibit an initial delay period during which sertraline is released at a rate less than 1 mgA/hr.


PatBase - ZA9805707_A


Preferred embodiments of sustained release formulations are osmotic systems such as any of the three osmotic systems discussed immediately above, and further coated with an asymmetric membrane coating made by a phase-inversion process. For use in these membrane systems sertraline lactate is especially preferred, as are ascorbic and aspartic acids, and partial glycerides.

Delayed Plus Sustained Release

As it is an additional object of this invention to reduce the exposure of the upper GI tract to high concentrations of sertraline in order to alleviate certain side effects (e.g. nausea, dizziness, and regurgitation), an additional class of dosage forms includes those forms which incorporate a delay before the onset of sustained release of sertraline. Such dosage forms may be described as spatially-delayed plus sustained release sertraline dosage forms or temporally-delayed plus sustained release sertraline dosage forms, as described above. In principle, any sustained release device, including any of the numerous embodiments disclosed above, can be coated with an exterior, usually all-covering, coating which provides delayed release (i.e., of less than 1 mgA/hr) prior to the onset of sustained release. The coating can be of the type which provide a temporal delay or a spatial delay.

A first embodiment can be illustrated by a tablet comprising an immediate-release core comprising sertraline coated with a first coating of a polymeric material of the type useful for providing sustained release of sertraline from the core and a second coating of the type useful for delaying release of drugs once the dosage form is ingested. The second coating breaks down and becomes permeable once the tablet has left the stomach or after a preset time. The first (inner) coating is applied over and surrounds the tablet. The second (exterior or outer) coating is applied over and surrounds the first coating.

The tablet can be prepared by techniques well known in the art and contains a therapeutically useful amount of sertraline plus such excipients as are necessary to form the tablet by such techniques. The second coating is a delay coating, either spatially delayed or temporally delayed.

The first coating may be a sustained release coating as known in the art, especially polymer coatings, to fabricate the membrane, as previously discussed for

0) US2009298129A – SYSTEMS AND METHODS FOR PROCESSING SAMPLES IN A...

**40) Family number: 41473184** (US2009298129A) © PatBase

**Title:** SYSTEMS AND METHODS FOR PROCESSING SAMPLES IN A CLOSED CONTAINER, AND RELATED DEVICES

**Priority:**
CN200780002497 20070117 US20060760087P 20060118 US20070159748 20070117
US20090159748 20090212 US20110235922 20110919 US20110235922 20110819
WO2007US01170 20070117 US20120490863 20120607 US20130845725 20130318
US20150692131 20150421 US20160216128 20160721 US20160357347 20161121

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| AU2007282135 AA | 20080214 | AU20070282135 | 20070117 |
| AU2007282135 AH | 20080717 | AU20070282135 | 20070117 |
| AU2007282135 BB | 20111208 | AU20070282135 | 20070117 |
| AU2007282135 CA | 20120524 | AU20070282135 | 20070117 |
| CA2635268 AA | 20080625 | CA20072635268 | 20070117 |
| CN101370622 A | 20090218 | CN200780002497 | 20070117 |
| CN101370622 B | 20130731 | CN200780002497 | 20070117 |
| CN103499466 A | 20140108 | CN201310274447 | 20070117 |
| CN103499466 B | 20170412 | CN201310274447 | 20070117 |
| EP1976670 A2 | 20081008 | EP20070835665 | 20070117 |
| EP1976670 A4 | 20160518 | EP20070835665 | 20070117 |
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| JP2009535015 T2 | 20091001 | JP20080551336T | 20070117 |
| JP5254040 B2 | 20130807 | JP20080551336T | 20070117 |
| KR101321658 B1 | 20131023 | KR20087017409 | 20070117 |
| KR20080087004 A | 20080929 | KR20087017409 | 20070117 |
| SG170870 A1 | 20110530 | SG20110002661 | 20070117 |
| US2009298129 AA | 20091203 | US20070159748 | 20070117 |
| US2012021422 AA | 20120126 | US20110235922 | 20110919 |
| US2012270310 AA | 20121025 | US20120490863 | 20120607 |
| US2013217105 AA | 20130822 | US20130845725 | 20130318 |
| US2015224506 AA | 20150813 | US20150692131 | 20150421 |
| US2016326573 AA | 20161110 | US20160216128 | 20160721 |
| US2017067925 AA | 20170309 | US20160357347 | 20161121 |
| US8030080 BB | 20111004 | US20070159748 | 20070117 |
| US8211701 BB | 20120703 | US20110235922 | 20110919 |
| US8431404 BB | 20130430 | US20120490863 | 20120607 |
| US9040303 BB | 20150526 | US20130845725 | 20130318 |
| US9409178 BB | 20160809 | US20150692131 | 20150421 |
| US9527074 BB | 20161227 | US20160216128 | 20160721 |
| US9638707 BB | 20170502 | US20160357347 | 20161121 |
| WO08018904 A2 | 20080214 | WO2007US01170 | 20070117 |
| WO08018904 A3 | 20080814 | WO2007US01170 | 20070117 |

**Probable Assignee:** ARGOS THERAPEUTICS INC

**Assignee(s):**(std)**:** ABDELMOTELEB ASHRAF F ; ARGOS THERAPEUTICS INC ; GRANT RICHARD ALEXANDER ; HARRIS SIMON ; HUNTER WILLIAM SAMUEL ; NEIL ROBERT ALISTER ; KNEEN DAVID THOMAS ; KIRIN BREWERY ; KIRIN PHARMA KK ; PEELE TIMOTHY DOYLE ; SPENCE SIMON JONATHON

**Assignee(s):** KIRIN HOLDINGS KK ; KIRIN PHARMA CO LTD ; KYOWA HAKKO KIRIN CO LTD ; KYOUWA HAKKOU KIRINN CO LTD ; KIRIN PHARMA KABUSHIKI KAISHA ; KIRIN

BEER KK ; KIRIN BEER KABUSHIKI KAISHA

**Inventor(s):**(std)**:** ABDELMOTELEB ASHRAF F ; ALEXANDER GRANT RICHARD ; ALISTER NEIL ROBERT ; ASHRAF F ABDELMOTELEB ; DAVID THOMAS KNEEN ; DOYLE PEELE TIMOTHY ; GRANT RICHARD ALEXANDER ; HARRIS SIMON ; HUNTER WILLIAM SAMUEL ; JONATHON SPENCE SIMON ; KNEEN DAVID THOMAS ; NEIL ROBERT ALISTER ; PEELE TIMOTHY DOYLE ; RICHARD ALEXANDER GRANT ; ROBERT ALISTER NEIL ; SAMUEL HUNTER WILLIAM ; SIMON HARRIS ; SIMON JONATHON SPENCE ; SPENCE SIMON JONATHON ; THOMAS KNEEN DAVID ; TIMOTHY DOYLE PEELE ; WILLIAM SAMUEL HUNTER

**Agent(s):** PIZZEYS PATENT AND TRADE MARK ATTORNEYS; PIZZEYS PATENT AND TRADE MARK ATTORNEYS PTY LTD; SIM AND MCBURNEY; AIRD AND BERLIS IP PARTNERSHIP LTD; HENRY GOH S PTE LTD; MYERS BIGEL SIBLEY AND SAJOVEC; MYERS BIGEL SIBLEY AND SAJOVEC PA; MYERS BIGEL SIBLEY AND SAJOVEC P A; MYERS BIGEL AND SIBLEY PA; MYERS BIGEL PA; MYERS BIGEL SIBLEY SAJOVEC PA

**Designated states:** AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

**International class** (IPC 8–9)**:** B01L1/00 B01L1/02 B01L3/00 B01L3/02 B01L7/00 B01L9/00 B01L9/06 B25J19/02 B25J3/00 B25J9/02 C12M1/00 C12M1/40 C12M3/00 C12P19/34 C12Q1/68 F16K31/00 G01F22/00 G01L1/00 G01N1/10 G01N1/28 G01N1/34 G01N21/03 G01N33/00 G01N35/00 (Advanced/Invention); B01L1/02 G01N21/03 (Advanced/Non–invention); B01L3/00 B01L3/02 B25J19/02 B25J3/00 B25J9/02 C12M1/00 C12M3/00 C12P19/00 F16K31/00 G01N1/10 G01N33/00 (Core/Invention)

**CPC:** B01L1/02 B01L3/021 B01L3/0293 B01L7/52 B01L9/06 B01L2200/0642 B01L2200/142 B01L2300/0838 B01L2400/0481 G01N2021/0378 B01L2300/123 B01L2300/046 G01N1/34 Y10T436/11 Y10T436/2575 C12Q1/686 B01L9/543 B01L3/0275 B01L2300/0848 B01L2300/0858 B01L2300/048 B01L2200/141 G01L1/00 B01L9/523 G01N35/00871 G01N35/00732 B01L3/5085 B01L2200/02 B01L2300/06 G01N35/0099 B01L1/00

**European class:** B01L3/02C B01L3/02H2 B01L7/52 B01L9/06 G01N35/00R L01L1/02 L01L200/06H L01L200/14B L01L300/08C4 L01L400/04M4 S01N21/03S

**US class:** 1/1 422/100 422/100S 422/102 422/102S 422/400 422/400S 422/500 422/501 422/536 422/561 422/564 422/63 422/63S 422/64 422/65 422/66 422/67 422/99 422/99S 435/287.2 435/289.1 435/289.100S 435/305.1 435/305.3 435/6.12 435/6.120P 435/91.2 435/91.200P 436/180 436/180S 436/43 436/43S 700/245 700/245S 700/258 700/258S 901/2 901/2S 901/30 901/30S 901/46 901/46S

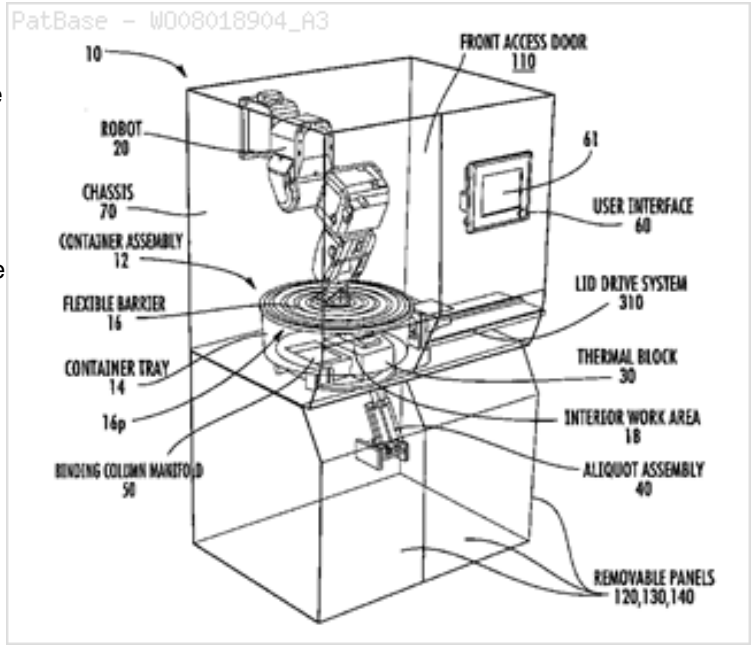
Classification Explorer

**Cited documents:** WO9957561 A2, WO9716561 A1, WO05042138 A1, WO04113052 A2, WO03100389 A1, WO03036298 A2, US6579497 BB, US6361136 BA, US6232464 BA, US6030582 A, US5947890 A, US5939582 A, US5934312 A, US5851492 A, US5795784 A, US5693233 A, US5578270 A, US5556365 A, US5554517 A, US5554516 A, US5485184 A, US5474303 A, US5437990 A, US5409818 A, US5399491 A, US5356034 A, US5287857 A, US5263299 A, US5130238 A, US5030557 A, US4895280 A, US4876187 A, US4815256 A, US4683202 A, US4683195 A, US2006008906 AA, US2005266411 AA, US2005233370 AA, US2005208539 AA, US2005042138 AA, US2004241713 AA, US2004029260 AA, US2003226796 AA, US2003211539 AA, US2003152494 AA, US2002159868 AA, US2002086431 AA, US2002004994 AA, JP2006501437 T2, JP2004212361 A2, JP2003057255 A2, JP2002513936 T2, JP2000500331 T2, CA2600828 AA,

**Forward Citations:** WO16201193, WO16190959, WO16086071, WO16018910, WO16004018, WO15071832, WO15071829, WO14046533, WO13016248, WO11100342, USD724236, USD717470, USD691733, USD674112, USD673293, US9645143, US9640364, US9638608, US9632102, US9627172, US9619627, US9592508, US9588109, US9581588, US9562271, US9545635, US9536699, US9530612, US9530611, US9464981, US9435793, US9404876, US9365895, US9347096, US9315801, US9285366, US9274132, US9268915, US9250229, US9242244, US9218935, US9218934, US9182171, US9144373, US9128015, US9121851, US9108201, US9103806, US9102979, US9096890, US9061285, US9012163, US8883492, US8840838, US8822167, US8809039, US8802031, US8697377, US8530229, US8333936, US2016346804, US2016032361, US2015355169, US2015298120, US2015238964,

US2015198588, US2015141291, US2015111202, US2015008333, US2014065598, US2013330248, US2013316441, US2013274139, US2013203046, US2013164825, US2013130369, US2013040377, US2012277536, US2012164721, US2012149603, US2012149088, US2012149035, US2011232125, US2011195518, US2011176975, US2010216082, US2008314855, US2008060719, KR101511217, JP2016537972, JP2012504427, JP2011123066, JP2010094049, EP2734300, EP2333559, EP2034319, DE102014108689, CN104807972, CN104321442, CN103571740, CN103540517, CN103175977, CN103037935, CN103037935, AU2009295324,

**Abstract:**
Source: US2009298129A A system and method for automated processing of nucleic acids and other samples includes a disposable container comprising a tray and a flexible barrier. The barrier is configured to seal with a top edge of the tray, providing a closed, aseptic work area within the sealed tray. A pipette head and/or other sample manipulation device can be attached to the inside of the barrier, and the barrier can include an interface for a robotic arm or other device. When the barrier is sealed over the tray, the barrier separates the contents of the tray from the robot or other manipulation device. The barrier can be flexible, and allow the robotic arm to move the pipette head throughout the work area of the tray. All samples, reagents, pipette tips and other tools or devices for processing nucleic acid samples may remain within the closed compartment provided by the container during processing.



0) US3959506A – METHOD FOR PEELING FRUITS AND VEGETABLES

**41) Family number: 1398989** (US3959506A) © PatBase

**Title:** Method for peeling fruits and vegetables

**Priority:** AU19740076240 19741210 AU19770022051 19770208 DE19732365954 19731206 US19740469613 19740513 DE19732325293 19730518 DE19732360886 19731206

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| AU197476240 A1 | 19730610 | AU19740076240 | 19741210 |
| AU197722051 A1 | 19780817 | AU19770022051 | 19770208 |
| AU515513 B2 | 19810409 | AU19770022051 | 19770208 |
| BE814004 A1 | 19740816 | BE19740143451 | 19740419 |
| BG30462 D | 19810615 | BG19740026704 | 19740516 |
| BR7403980 A0 | 19741224 | BR19740003980 | 19740516 |
| CA1006105 A1 | 19770301 | CA19740199800 | 19740514 |
| DD110927 C | 19750112 | DD19740177209 | 19740315 |
| DE2325293 B1 | 19740829 | DE19732325293 | 19730518 |
| DE2325293 C2 | 19750417 | DE19732325293 | 19730518 |
| DE2360886 A1 | 19750619 | DE19732360886 | 19731206 |
| DE2360886 B2 | 19770512 | DE19732360886 | 19731206 |
| DE2360886 C3 | 19780126 | DE19732360886 | 19731206 |
| DE2365954 A1 | 19770203 | DE19732365954 | 19731206 |
| DE2365954 C2 | 19821111 | DE19732365954 | 19731206 |
| ES424063 A1 | 19761001 | ES19740424063 | 19740308 |
| ES424064 A1 | 19760601 | ES19740424064 | 19740308 |
| FR2229358 A1 | 19741213 | FR19740014434 | 19740425 |
| FR2229358 B1 | 19801031 | FR19740014434 | 19740425 |
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| FR2229901 B3 | 19770304 | FR19740014435 | 19740425 |
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| HU173237 P | 19790328 | HU1974KU00480 | 19740319 |
| IE39973 B | 19790214 | IE19740001055 | 19740517 |
| IE39973 L | 19741118 | IE19740001055 | 19740517 |
| IL44829 A0 | 19740731 | IL19740044829 | 19740515 |
| IL44829 A1 | 19771230 | IL19740044829 | 19740515 |
| IT1008195 A | 19761110 | IT19740048135 | 19740205 |
| IT1008799 A | 19761130 | IT19740048136 | 19740205 |
| JP1028723 C3 | 19810122 | JP19740038068 | 19740405 |
| JP50006762 A2 | 19750123 | JP19740038068 | 19740405 |
| JP50009815 A2 | 19750131 | JP19740038067 | 19740405 |
| JP53022968 B4 | 19780712 | JP19740038067 | 19740405 |
| JP55018517 B4 | 19800519 | JP19740038068 | 19740405 |
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| NL167082 B | 19810616 | NL19740002409 | 19740221 |
| NL167082 C | 19811116 | NL19740002409 | 19740221 |
| NL7402409 A | 19741120 | NL19740002409 | 19740221 |
| RO70204 P | 19820324 | RO19740078825 | 19740517 |
| SU567418 D | 19770730 | SU19742015022 | 19740415 |
| US3959506 A | 19760525 | US19740469613 | 19740513 |

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|---|---|---|---|
| US4064794 A | 19771227 | US19750557633 | 19750312 |

**Probable Assignee:** PAUL KUNZ DOETTESFELD BONDSREPUBLIEK DUITSLAND

**Assignee(s):**(std): KUNG P ; KUNZ ; KUNZ P ; KUNZ PAUL ; KUNZ PAUL 5419 DOETTESFELD ; PAUL KUNTS ; PAUL KUNTS DT ; PAUL KUNZ TE DOETTESFELD BONDSREPUBLIEK DUITSLAND ; PAUL KUNZ DOETTESFELD BONDSREPUBLIEK DUITSLAND ; PAUL KUNZ ; KUNZ PAUL DE ; KUNZ PAUL DT

**Assignee(s):** KUNZ PAUL 5419 DOETTESFELD DE

**Inventor(s):**(std): PAUL KUNZ ; KUNZ PAUL ; KUNZ ; PAUL KUNTS DT ; KUNZ PAUL DE ; KUNZ P ; KUNTS PAUL

**Inventor(s):** KUNZ PAUL 5419 DOETTESFELD DE ; KUNZ PAUL 5419 DOETTESFELD

**Agent(s):** CU; SELIGSOHN GABRIELI AND CO

**International class (IPC 8–9):** A23N7/00 A23N7/02 F16J13/00 F16J13/02 F16K31/56 (Advanced/Invention); A23N7/00 F16J13/00 F16K31/44 (Core/Invention)

**International class (IPC 1–7):** A23L1/212 A23N7/00 F16J13/02

**CPC:** A23N7/005 F16J13/02

**European class:** A23N7/00B F16J13/02

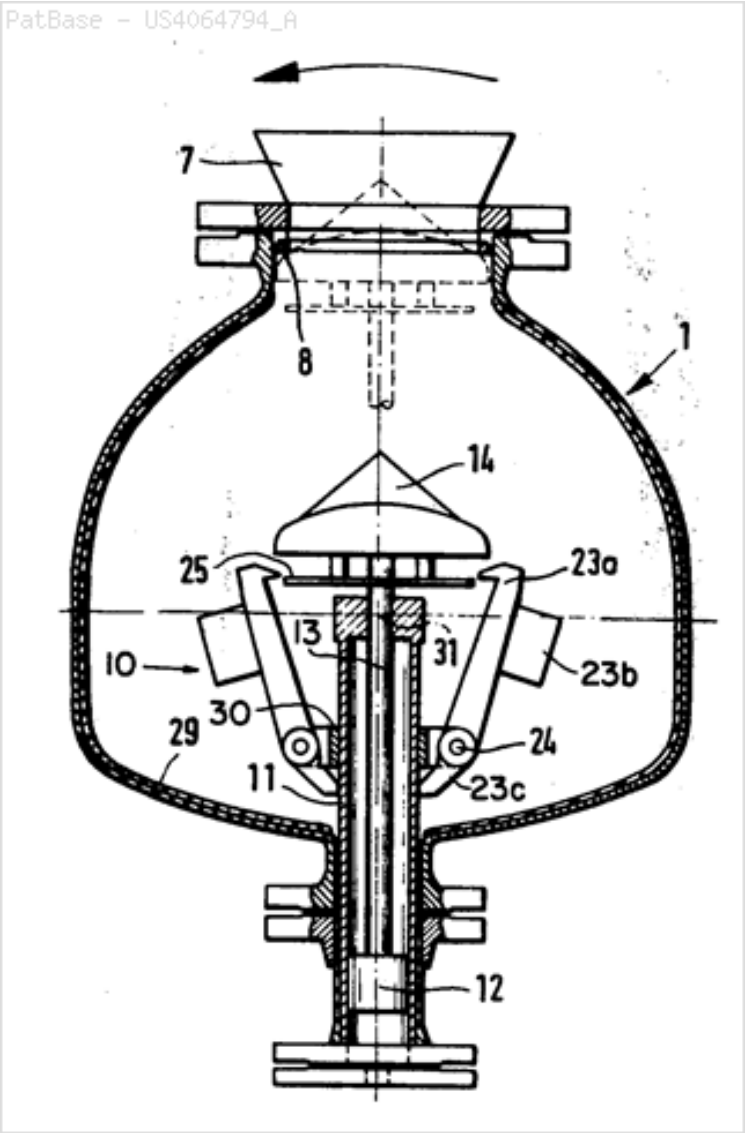
**US class:** 422/26 426/482 426/483 426/511 99/474 99/516 99/584

Classification Explorer

**Cited documents:** US3853049 A, US3844597 A, US3623627 A, US3164181 A, US2676632 A, US2638137 A, US2490112 A, US1325847 A, JP46040747 A2, DE2490112 A1, DE2409135 A1, DE2158635 A1, DE2032796 A1, DE1284146 B, DE1234690 A,

**Forward Citations:** WO9625059, WO04062392, US9574678, US8250973, US7615243, US6305271, US5855857, US4995313, US4707372, US4569850, US4524681, US4222322, US4188869, US4101682, US4091722, US4068011, US2010326545, US2010018401, US2007119312, US2007003676, US2006048651, JP54008781, JP53124671, JP51130796, JP2063694, FR2330336, FR2307479, EP1927293, DE2540111, DE2532598, CN101999739,

**Abstract:**
Source: US3959506A The present apparatus for skinning or peeling of produce comprises a rotatably mounted pressure vessel having a cover operable from within the vessel for sealing the vessel. The cover is pressure operated and permitted to fall open under the force of gravity upon pressure release. A pivoted latching pawl is provided in the pressure vessel for engaging the cover to hold it open. The pawl is also gravity operated to latch the cover in an open position. In the process for skinning or peeling produce, the pressure vessel is loaded with the produce, sealed and steam is introduced therein to rapidly increase the pressure and temperature within the vessel sufficiently so that a layer under the skin of the produce will come to a boil in response to pressure release. The pressure is maintained for a given period until the layer of the produce under its skin is sufficiently heated. Then the pressure is reduced to atmospheric pressure in either one or two steps, whereby said boiling occurs and the skin is removed thereby.



0) US5749285A – FOOD PROCESSOR

**42) Family number: 32481787** (US5749285A) © PatBase

**Title:** FOOD PROCESSOR

**Priority:** DE19944414822 19940428 DE19955006175 19950428 DE19955008460 19950428 DE19955010766 19950428 EP19950919991 19950428 WO1995EP01634 19950428 EP19980105617 19950428 EP19990120854 19950428

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| AT180953 E | 19990615 | AT19950919991T | 19950428 |
| AT193639 E | 20000615 | AT19950105617T | 19950428 |
| AT246899 E | 20030815 | AT19950120854T | 19950428 |
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| CA2188546 AA | 19961022 | CA19952188546 | 19950428 |
| CN1099861 C | 20030129 | CN19951093892 | 19950428 |
| CN1151682 A | 19970611 | CN19951093892 | 19950428 |
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| CZ298426 B6 | 20070926 | CZ20010003567 | 19950428 |
| CZ9602954 A3 | 19970312 | CZ19960002954 | 19950428 |
| DE4414822 A1 | 19951102 | DE19944414822 | 19940428 |
| DE59506175 D1 | 19990715 | DE19955006175 | 19950428 |
| DE59508460 D1 | 20000713 | DE19955008460 | 19950428 |
| DE59510766 D1 | 20030918 | DE19955010766 | 19950428 |
| DK0757533 T3 | 20000117 | DK19950919991T | 19950428 |
| DK0861626 T3 | 20001023 | DK19950105617T | 19950428 |
| DK0979629 T3 | 20031208 | DK19950120854T | 19950428 |
| EP0757533 A1 | 19970212 | EP19950919991 | 19950428 |
| EP0757533 B1 | 19990609 | EP19950919991 | 19950428 |
| EP0861626 A2 | 19980902 | EP19980105617 | 19950428 |
| EP0861626 A3 | 19981028 | EP19980105617 | 19950428 |
| EP0861626 B1 | 20000607 | EP19980105617 | 19950428 |
| EP0979629 A2 | 20000216 | EP19990120854 | 19950428 |
| EP0979629 A3 | 20000830 | EP19990120854 | 19950428 |
| EP0979629 B1 | 20030813 | EP19990120854 | 19950428 |
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| ES2148004 T3 | 20001001 | ES19980105617T | 19950428 |
| ES2201615 T3 | 20040316 | ES19990120854T | 19950428 |
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| GR3034268 T3 | 20001229 | GR20000401955T | 20000830 |
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| PL176431 B1 | 19990531 | PL19950316970 | 19950428 |
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| PT979629 T | 20031231 | PT19990120854T | 19950428 |
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| SI0979629 T1 | 20040229 | SI19950030686T | 19950428 | |
| SK136896 A3 | 19970507 | SK19960001368 | 19950428 | |
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| WO9529618 A2 | 19951109 | WO1995EP01634 | 19950428 | |
| WO9529618 A3 | 19951130 | WO1995EP01634 | 19950428 | |

**Probable Assignee:** VORWERK AND CO INTERHOLDING GMBH

**Assignee(s):**(std)**:** DOERNER STEFAN ; KEMKER UWE ; VORWERK AND CO ; VORWERK AND CO ELEKTROWERKE KG ; VORWERK CO INTERHOLDING ; VORWERK AND CO INTERHOLDING GMBH ; VORWERK AND COINTERHOLDING GMBH

**Assignee(s):** VORWERK AND CO INTERHOLDING GMBH 42275 WUPPERTAL DE ; VORWERK AND CO INTERHOLDING GMBH 42275 WUPPERTAL D ; LAPP OLIVER ; SIMM HANS PETER ; DORNER STEFAN

**Inventor(s):**(std)**:** UWE KEMKER ; STEFAN DORNER ; SIMM HANS PETER ; RAPU OLEFER ; OLEFER RAPU ; LAPP OLIVER ; KEMKERE UWE ; DORNER STEFAN ; DOERNER STEFAN ; KEMKER UWE ; DAARNER STEFAN ; DIRNER STEFAN

**Inventor(s):** UWE KEMKERE ; DOERNER STEFAN 42697 SOLINGEN DE ; SIMM HANS PETER D 42349 WUPPERTAL DE ; LAPP OLIVER D 42287 WUPPERTAL DE ; KEMKER UWE D 42105 WUPPERTAL DE ; DOERNER STEFAN D 42697 SOLINGEN DE ; KEMKER UWE 42105 WUPPERTAL DE

**Agent(s):** MCCARTHY TETRAULT LLP

**Designated states:** AM AT AU BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CZ DE DK EE ES FI FR GA GB GE GN GR HU IE IS IT JP KE KG KP KR KZ LI LK LR LT LU LV MC MD MG ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SN SZ TD TG TJ TM TT UA UG US UZ VN

**International class (IPC 8–9):** A47J27/00 A47J36/16 A47J43/00 A47J43/046 A47J43/07 A47J43/28 (Advanced/Invention); A47J27/00 (Advanced/Non–invention); A47J27/00 A47J36/00 A47J43/00 A47J43/04 (Core/Invention)

**International class (IPC 1–7):** A47J27/00 A47J36/16 A47J43/00 A47J43/04 A47J43/046 A47J43/07

**CPC:** A47J27/004 A47J43/288 A47J36/165 A47J43/07 A47J43/0722 A47J43/0727 A47J43/0777

**European class:** A47J36/16B A47J43/056C4B A47J43/07 A47J43/07D A47J43/07S4C2 A47J43/28G K47J43/07C2

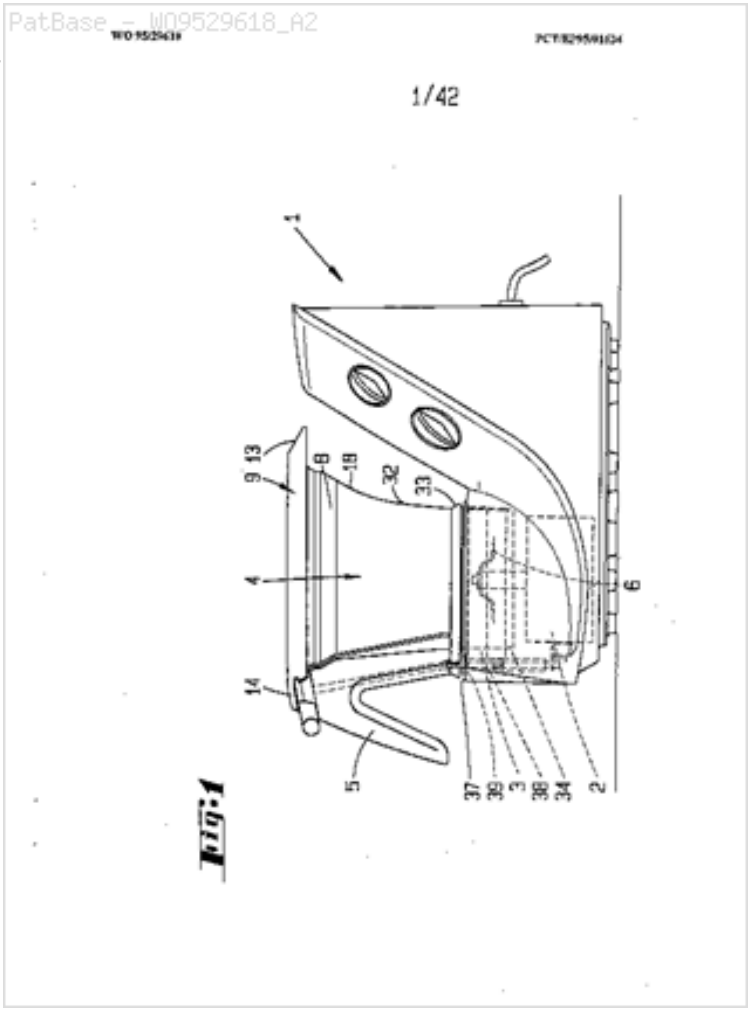
**US class:** 366/146 366/314 99/348 99/409 99/511 993/480

Classification Explorer

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**Abstract:**
Source: US5749285A PCT No. PCT/EP95/01634 Sec. 371 Date Jan. 21, 1997 Sec. 102(e) Date Jan. 21, 1997 PCT Filed Apr. 28, 1995 PCT Pub. No. WO95/29618 PCT Pub. Date Nov. 9, 1995The invention pertains to a food processor with a mixing vessel (4) and a drive mechanism for an agitator in the mixing vessel (4), where the mixing vessel (4) has in its lower region an opening of substantially circular cross−section. To make this type of food processor more practicable the invention proposes that the cross−section of the upper opening be elliptical and that a geometric mid−point (19') of the upper opening cross−section be offset from a mid−point (19) of the lower opening cross−section.



0) US2006249535A – METHOD OF DRAINING A FLEXIBLE CONTAINER HOUSING...

**43) Family number: 30869191** (US2006249535A) © PatBase

**Title:** METHOD OF DRAINING A FLEXIBLE CONTAINER HOUSING A VISCOUS PRODUCT

**Priority:** FR20030001724 20030213 FR20030007872 20030630 WO2004FR50039 20040203 US20060544375 20060619 US20090564144 20090922 US20040544375 20040203

**Family:**

| Publication number | Publication date | Application number | Application date |
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**Probable Assignee:** BLUESTAR SILICONES FRANCE

**Assignee(s):**(std)**:** BLUESTAR SILICONES FRANCE ; CRAPLET JULIEN ; JEAN FREDERIC ; MAUGER FREDERIC ; RHODIA CHEMICAL CO LTD ; RHODIA CHIMIE ; RHONE POULENC CHIMIE ; RODIA SHIMI ; RHODIA CHIMIE SA

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**Inventor(s):**(std)**:**

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**Inventor(s):** MAUGER FREDERIC CRAPLET JULIEN JEAN FREDERIC ; KRAPLE ZHJUL'EN

**Agent(s):** AJ PARK; A J PARK; OGILVY RENAULT LLP SENCRL SRL; NORTON ROSE CANADA SENCRL SRL LLP; FLEURANCE RAPHAEEL ET AL; CABINET PLASSERAUD; JAMES C LYDON; JAMES C

**Designated states:** AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

**International class (IPC 8–9):** B65D35/28 B65D83/00 B65D88/16 B65D90/00 B65D90/04 B67D1/12 B67D5/02 B67D7/02 B67D7/64 B67D7/78 G01F11/00 G01F11/06 (Advanced/Invention); B67D7/02 (Advanced/Non–invention); B65D35/24 B65D83/00 B65D88/00 B65D90/00 B65D90/04 B67D1/00 B67D7/00 (Core/Invention)

**International class (IPC 1–7):** B65B69/00 B65D88/54 B65G65/40 B67C9/00 B67D3/00 B67D5/02 B67D5/04

**CPC:** B67D7/0216 B67D7/0227 B67D7/0244 B67D7/0255

**European class:** B67D7/02C B67D7/02D B67D7/02E2 B67D7/02E4

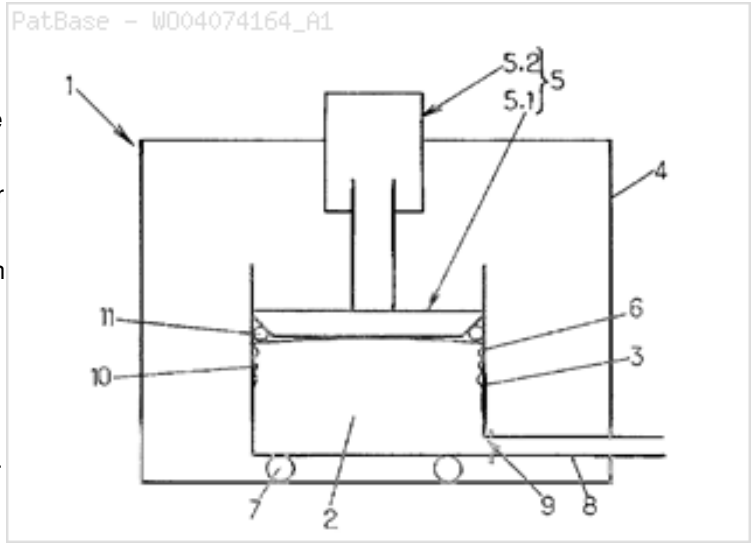
**US class:** 222/1 222/102 222/1P 222/326 222/95 222/95P 222/95S

Classification Explorer

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**Forward Citations:** WO11080402, WO10136714, WO06070010, US9334075, US9266657, US8985395, US8851328, US8590740, US8157127, US2016244249, US2016242456, US2016242455, US2013062366, US2010006594, US2008257447, KR101274262, KR101066423, JP2014525375, JP2012526711, JP2008526625, JP2008174746, FR2880339, EP3106408, EP3106408, EP1831099, DE102014203224, CN103552750, CN103552750, CN102421670,

**Abstract:**
Source: US2006249535A A method and kit for draining a flexible container holding a product having a viscosity of between 10 Pa.s and 200 000 Pa.s. The method includes using a flexible container (3); optionally, moving the container (3) to be drained to a drainage site; ensuring the viscous product (2) can flow from container (3) through at least one outlet (9); exerting a pressure on at least one defined area of container (3) using a pressurizing device which preferably includes at least one pressure member (5) and/or a pressure fluid to maintain container (3) in an inflated or partially–inflated state; and removing the pressure once the container has been drained. The drainage kit includes the viscous product (silicon mastic), a flexible container (3) and a draining device including at least one pressure member and/or pressure fluid.



**44) Family number: 29582669** (US2001004470A) © PatBase

**Title:** Alkane and polyamine solvent compositions for liquid delivery chemical vapor deposition

**Priority:**

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| US19910692138 | 19910426 | KR20007005497 | 20000519 | US19910807807 | 19911213 |
| US19900549389 | 19900706 | US19900615303 | 19901119 | US19900581631 | 19900912 |
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| US19940280143 | 19940725 | US19920927134 | 19920807 | US19940345317 | 19941128 |
| US19950477797 | 19950607 | US19950484654 | 19950607 | US19950414504 | 19950331 |
| US19990441694 | 19991116 | US20010791005 | 20010222 | US19990321637 | 19990528 |
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**Probable Assignee:** ENTEGRIS INC

**Assignee(s):**(std)**:** ADVANCED TECH MATERIALS ; ADVANCED TECHNOLGY MATERIALS I ; ADVANCED TECHNOLOGY MATERIALS INC ; GARDINER ROBIN A ; BUSKIRK PETER VAN ; GLASSMAN TIMOTHY E ; BAUM THOMAS H ; POMBRIK SOFIA ; KIRLIN PETER S ; VAARTSTRA BRIAN A ; GORDON LEGAL REPRESENTATIVE CONNIE L ; GORDON DOUGLAS CAMERON

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**Inventor(s):**(std)**:** BAUM H ; BAUM THOMAS ; BAUM THOMAS W ; BAUM W ; BHANDARI GAUTAM ; BINDER ROBIN L ; BUSKIRK PETER V ; CHAPPUIS MARGARET ; CHRISTOS DEBRA DESROCHERS ; DUBOIS H ; DUBOIS RAYMOND H ; DUNCAN W BROWN ; GAADEINAA ROBIN EE ; GARDINER A ; GARDINER ROBIN A ; GAUTAM BHANDARI ; GLASSMAN TIMOTHY E ; GORDON DOUGLAS ; GORDON DOUGLAS CAMERON ; GORDON LEGAL REPRESENTATIVE CO ; GREGORY STAUF ; HENDRIX BRYAN C ; HINTERMAIER FRANK S ; JIMING ZHANG ; KIRLIN PETER R ; KIRLIN S ; LI YI OUN ; LI YI QUN ; MARGARET CHAPPUIS ; OGRUO KAORU ; PAW WITOLD ; PETER S KIRLIN ; POMBRIK SOFIA ; PORNBRIK SOFIA ; RAYMOND H DUBOIS ; DESROCHERS CHRISTOS DEBRA A ; DESROCHERS DEBRA ; DESROCHERS DEBRA A ; BROWN W ; ROEDER JEFFREY F ; STAUF GREGORY ; STAUF GREGORY T ; THOMAS BAUM ; THOMAS H BAUM ; VAARSTRA BRIAN A ; VAARTSTRA A ; VAARTSTRA BRIAN A ; YI QUN LI ; ZHANG JIMING ; ZHANG JIMING C ; ZHANG JIMING C HILLCREST APART ; KIRLIN PETER S ; BROWN DUNCAN W ; BAUM THOMAS H ; POMBRIK SOPHIA ; KIRLIN PETER ; GORDON CONNIE L ; GARDINER ROBIN ; BUSKIRK PETER VAN ; BINDER ROBIN ; GORDON LEGAL REPRESENTATIVE CONNIE L ; VAN BUSKIRK PETER ; WINN DAVID R

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**Designated states:** AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CU CY CZ DE DK EE ES FI FR GA GB GE GH GM GN GQ GR GW HR HU ID IE IL IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT TZ UA UG US UZ VN YU ZW

**International class (IPC 8–9):** A41H27/00 B01B1/00 B01F3/02 B01J4/02 B01J7/00 C01B21/076 C01G1/00 C01G23/00 C01G3/00 C04B38/00 C06F5/00 C07C211/14 C07C45/00 C07C49/12 C07C49/92 C07D213/22 C07D307/06 C07F1/00 C07F1/08 C07F11/00 C07F15/00 C07F17/00 C07F19/00 C07F3/00 C07F3/04 C07F5/00 C07F5/06 C07F7/00 C07F7/24 C07F7/28 C07F7/30 C07F9/00 C07F9/90 C07F9/94 C08G18/10 C08G18/80 C09D1/00 C09D5/00 C09J7/02 C09J7/04 C09K3/00 C23C16/00 C23C16/06 C23C16/18 C23C16/30 C23C16/40 C23C16/44 C23C16/448 C23C16/455 C23C18/00 C23F15/00 C30B25/00 F01B31/00 F04B53/02 F04B53/16 F23K5/22 G01T5/08 G02B6/02 G02B6/036 G02F1/1333 H01B12/00 H01F1/40 H01F41/20 H01L21/20 H01L21/31 H01L21/314 H01L21/316 H01L39/24 H01L43/12 (Advanced/Invention); C06F5/00 C07D213/22 C07F3/00 C07F5/00 C07F9/94 C08L75/00 C08L75/04 C09K3/00 C23C16/00 C23C16/18 H01B12/00 (Advanced/Non–invention); A41H27/00 B01F3/00 B01J4/02 B01J7/00 C01B21/00 C01G1/00 C01G23/00 C01G3/00 C04B38/00 C07C49/00 C07F1/00 C07F11/00 C07F15/00 C07F19/00 C07F3/00 C07F5/00 C07F7/00 C07F9/00 C08G18/00 C09D5/00 C09J7/02 C09J7/04 C23C16/18 C23C16/30 C23C16/40 C23C16/44 C23C16/448 C23C16/455 F04B53/00 F23K5/02 G02B6/02

H01L21/02 H01L39/24 (Core/Invention); C08L75/00 H01L21/20 (Core/Non–invention)

**International class (IPC 1–7):** B01B1/00 B01F3/04 B01J4/02 B01J7/00 B05D5/12 C01B21/076 C01G1/00 C01G23/00 C01G3/00 C04B38/00 C06F5/00 C07C211/00 C07C211/14 C07C41/00 C07C45/00 C07C49/12 C07C49/92 C07D213/22 C07D307/02 C07D307/06 C07F1/00 C07F1/08 C07F11/00 C07F15/00 C07F17/00 C07F3/00 C07F3/04 C07F5/00 C07F7/00 C07F7/28 C07F7/30 C07F9/00 C07F9/94 C09K3/00 C23C16/00 C23C16/06 C23C16/18 C23C16/30 C23C16/40 C23C16/44 C23C16/448 C23C16/455 C23C16/52 C23F15/00 C30B23/08 C30B25/00 F01B31/00 F04B53/02 F04B53/16 F23K5/22 G02B6/22 G02F1/1333 H01B12/00 H01L21/20 H01L21/31 H01L21/316

**CPC:** Y02E40/64 C07F1/005 C07F5/069 C07F7/003 C07F11/005 C07F15/004 B01F3/022 C07C49/92 C23C16/405 G01T1/201 G02B6/03622 G02B6/03694 C07F3/00 C23C16/4 Y10S423/14 Y10S438/935 Y10S505/73 Y10S505/734 Y10S261/65 Y10S261/88 Y10S427/101 A41H27/00 C08G18/10 C08G18/8074 C08G18/8077 C08G2170/20 C08L75/00 C08L75/04 C09J7/0203 C09J7/043 C09J2475/00 C23C16/448 C07F9/94 C07F3/003 C07F5/003 C07F7/006 C07F9/005 C07F19/005 C23C16/30 C23C16/305 C23C16/4483 C23C16/45561 H01L39/2441 H01F1/0009 C23C16/18 C23C16/40 C23C16/408 C23C16/409 C23C16/4481 H01F1/40 H01F41/20 H01L43/12

**European class:** A41H27/00 B01F3/02B C07C49/92 C07F1/00B C07F11/00B C07F15/00N3B C07F19/00B C07F3/00B C07F5/00B C07F5/06B C07F7/00B C07F7/00B2 C07F9/00B C07F9/94 C08G18/10 C08G18/80H4D C08G18/80H4F C09J7/02D C09J7/04B4 C23C16/18 C23C16/30 C23C16/30C C23C16/40 C23C16/40H C23C16/40N C23C16/40P C23C16/448 C23C16/448B C23C16/448B4 C23C16/455J G01T1/20F G02B6/02 G02B6/036L2 G02B6/036U G02B6/16 G02B6/22 H01F1/40 H01F41/20 H01L39/24J2F2 H01L43/12 M08G170/20 M08L75/00 M08L75/04 M09J475/00 Y02E40/64

**US class:** 106/1.25 106/1.250S 106/1.26 106/12.5 106/12.6 106/287.12 106/287.17 106/287.18 106/287.19 106/287.2 106/287.21 106/287.23 106/287.3 106/311 117/102 117/103 117/104 117/93 117/944 117/99 118/726 134/115R 134/56R 252/182.12 252/182.23 252/364 261/100 261/104 261/106 261/107 261/154 261/DIG.65 261/DIG.88 349/3 385/128 385/141 385/144 392/399 417/431 422/7 422/9 423/DIG.14 427/123 427/124 427/126.1 427/126.3 427/248.1 427/250 427/252 427/255.1 427/255.2 427/255.21 427/255.23 427/255.28 427/255.280P 427/255.29 427/255.3 427/255.31 427/255.32 427/255.36 427/255.6 427/255.600P 427/255.600S 427/419.1 427/419.2 427/58 427/58S 427/62 427/69 427/901 428/355N 428/694TF 430/57.1 438/935 501/135 505/1 505/100 505/120 505/121 505/124 505/125 505/330 505/445 505/447 505/473 505/512 505/730 505/734 534/15 534/15S 534/16 546/2 546/256 546/257 546/259 546/266 549/206 549/257 549/3 549/429 549/497 549/505 556/114 556/136 556/175 556/32 556/40 556/40S 556/42 556/44 556/55 556/57 556/64 556/76 556/79 564/463 564/510 564/511 564/512 568/412 568/615 568/677 92/87 G9B/11.007 G9B/9.024

Classification Explorer

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**Abstract:**
Source: US2001004470A A solvent composition for liquid delivery chemical vapor deposition of metal organic precursors, to form metal–containing films such as SrBi2Ta2O9 (SBT) films for memory devices. An SBT film may be formed using precursors such as Sr(thd)2(tetraglyme), Ta(OiPr)4(thd) and Bi(thd)3 which are dissolved in a solvent medium comprising one or more alkanes. Specific alkane solvent compositions may advantageously used for MOCVD of metal organic compound(s) such as beta–diketonate compounds or complexes, compound(s) including alkoxide ligands, and compound(s) including alkyl and/or aryl groups at their outer (molecular) surface, or compound(s) including other ligand coordination species and specific metal constituents.

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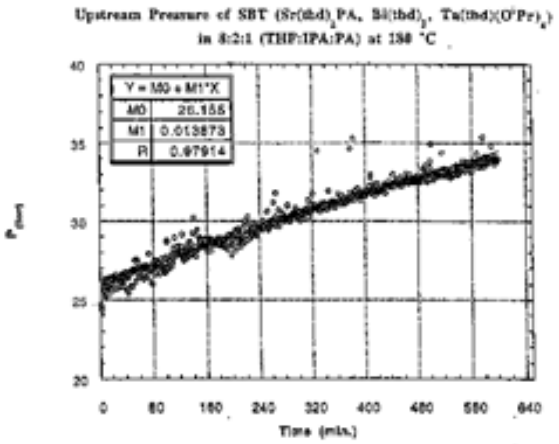



Figure 1

0) US2007055179A – METHOD FOR TREATING SUBCUTANEOUS TISSUES

**45) Family number: 34277035** (US2007055179A) © PatBase

**Title:** METHOD FOR TREATING SUBCUTANEOUS TISSUES

**Priority:**

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**Agent(s):** SHELSTON IP; SHELSTON IP PTY LTD; FB RICE; IN LEGAL LTD; SMART AND BIGGAR; WALLINGER RICKER SCHLOTTER TOSTMANN PATENT U RECHTSANWAELTE PARTNERSCHAFT MBB; STOLMAR AND PARTNER PATENTANWAELTE PARTG MBB; MCLEISH NICHOLAS ALISTAIR MAXWELL; BOULT WADE TENNANT; RICKER MATHIAS; LINAGE RAFAEL; NAGAI HIROSHI; TACHIBANA KENJI; TANAKA JUNYA; FULWIDER PATTON – CABOCHON AESTHETICS; FULWIDER PATTON CABOCHON AESTHETICS; FULWIDER PATTON; FULWIDER PATTON LLP; JONATHAN; KNOBBE MARTENS OLSON AND BEAR LLP; NAGY JOHN S; JOHN S NAGY; KENNETH C CHENEY

**Designated states:** AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT QA RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

**International class (IPC 8–9):** A61B17/00 A61B17/03 A61B17/20 A61B17/225 A61B17/30 A61B17/32 A61B17/3201 A61B17/3203 A61B17/3209 A61B17/3211 A61B17/34 A61B18/00 A61B18/06 A61B18/12 A61B18/14 A61B18/18 A61B18/20 A61B90/00 A61F2/00 A61F2/02 A61F7/00 A61F7/12 A61H1/00 A61H1/02 A61H23/02 A61H5/00 A61K31/137 A61K38/22 A61K41/00 A61K45/00 A61K9/12 A61M1/00 A61M37/00 A61M5/00 A61M5/142 A61M5/145 A61M5/158 A61M5/32 A61M5/42 A61M5/46 A61M5/50 A61N1/06 A61N1/18 A61N1/30 A61N1/32 A61N5/06 A61N5/067 A61N7/00 A61N7/02 A61P17/00 A61P3/06 B01D47/02 C12N1/06 C12N13/00 (Advanced/Invention); A61B17/00 A61B17/22 A61B17/30 A61B17/3201 A61B17/3203 A61B17/34 A61B18/00 A61B18/06 A61B18/08 A61B18/14 A61B18/20 A61B19/00 A61F2/00 A61H23/02 A61M5/30 A61N1/32 A61N1/40 A61N5/06 A61N7/00 A61N7/02 (Advanced/Non–invention); A61B17/00 A61B17/20 A61B17/32 A61B17/34 A61B18/00 A61B18/14 A61B18/18 A61F7/00 A61F7/12 A61H1/00 A61M1/00 A61M37/00 A61M5/00 A61M5/32 A61N1/06 A61N1/18 A61N1/30 A61N1/32 A61N7/00 B01D47/02 C12N1/06 C12N13/00 (Core/Invention)

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**European class:** A61B17/3203 A61B17/3209F A61B17/32E A61B18/14 A61B18/14N A61K41/00M A61M37/00U A61N1/04E1E A61N1/04E2P A61N1/30B4 A61N1/32S A61N7/00 K61B17/00C1T K61B17/00C2A K61B17/00C4P2B K61B17/00R2 K61B17/00R2R K61B17/22B1C2 K61B17/30S K61B17/30S2 K61B17/3201 K61B17/3203 K61B17/3209F K61B17/32E2R K61B17/32K K61B17/32L K61B17/32S K61B17/34D1 K61B17/34D1B K61B17/34J K61B18/00B14 K61B18/00B16C K61B18/00B4 K61B18/00B6 K61B18/00F8 K61B18/00F8B K61B18/00G6 K61B18/00H10A K61B18/00H12B K61B18/00H12R K61B18/00H14 K61B18/14B K61B18/14C12 K61B18/14C12B K61B18/14C12C K61B18/14C4 K61B18/14N K61B18/14V K61B18/18 K61B18/18M8 K61B18/20 K61B18/20H K61B19/46H2 K61B19/48H8 K61B19/48N K61B218/00D2 K61H201/02H K61H201/10 K61H201/10N K61H23/02P K61K9/00L8 K61M202/09B K61M37/00M2 K61M37/00U K61M5/158G K61M5/30J K61N1/30B4 K61N1/32S K61N1/32T K61N1/40T K61N5/06W4 K61N7/00A2 K61N7/00B K61N7/02

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Classification Explorer

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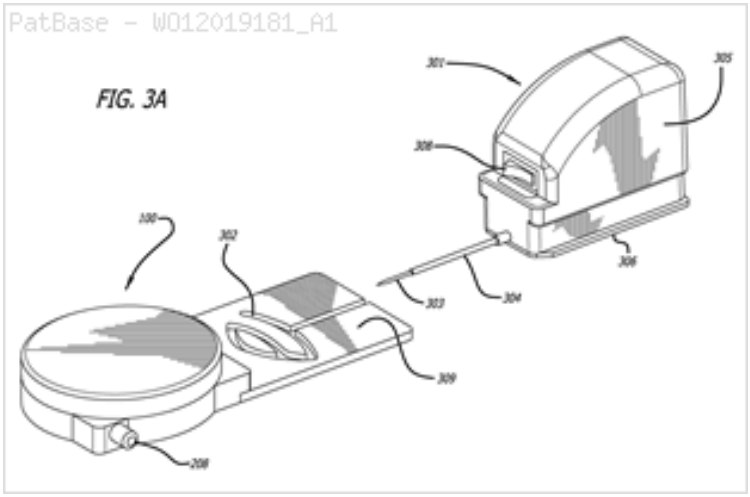
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**Abstract:**
Source: US2007055179A An apparatus and method for treating subcutaneous tissues using acoustic waves in the range of low acoustic pressure ultrasound waves is disclosed. The method includes injections of enhancing agents, wherein disruption of subcutaneous tissues and subcutaneous cavitational bioeffects are produced by ultrasound waves having a power that will not produce tissue cavitation in the absence of the enhancing agents. The apparatus and method of use is useful for treatment of subcutaneous abnormalities including cellulite, lipomas, and tumors.



0) US2004131766A – SUBSTRATE PROCESSING METHOD AND APPARATUS

**46) Family number: 30609358** (US2004131766A) © PatBase

**Title:** SUBSTRATE PROCESSING METHOD AND APPARATUS

**Priority:**

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| US20060455736 20060620 | US20030712348 20031114 | US20060454790 20060619 |
| US20060455777 20060620 | US20110100484 20110504 | |

**Family:**

| Publication number | Publication date | Application number | Application date |
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**Probable Assignee:** EBARA CORP

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**Assignee(s):** EBARA CORPORATIONJP

**Inventor(s):**(std): AKIRA OWATARI ; DAI NAOKI ; DAJ NAOKI ; KATSUOKA SEIJI ; KENICHI KOBAYASHI ; KOBAYASHI KENICHI ; MASAHIKO SEKIMOTO ; MITSURU MIYAZAKI ; MIYAZAKI MITSURU ; MOTOJIMA YASUYUKI ; MOTOSHIIMA YASUYUKI ; MOTOSHIMA YASUYUKI ; NAOKI DAI ; OGAWA TAKAHIRO ; OWATARI AKIRA ; SEIJI KATSUOKA ; SEKIMOTO MASAHIKO ; TAKAHIRO OGAWA ; TERUYUKI WATANABE ; TOSHIO YOKOYAMA ; WATANABE TERUYUKI ; YASUYUKI MOTOSHIMA ; YOKOYAMA TOSHIO

**Inventor(s):** OGAWA TAKAHIRO AND

**Agent(s):** WENDEROTH LIND AND PONACK LLP

**Designated states:** AT BE BG CH CN CY CZ DE DK EE ES FI FR GB GR HU IE IT JP KR LU MC NL PT RO SE SI SK TR

**International class** (IPC 8–9): B05C11/00 B05C13/00 B05C19/02 B05C21/00 B05C3/02 B05C5/02 B05D3/10 B08B1/04 B08B13/00 B65G49/04 C23C18/04 C23C18/16 C23C18/18 C23C18/28 C23C18/30 C23C18/31 C25D17/00 C25D7/12 H01L21/00 H01L21/18 H01L21/28 H01L21/288 H01L21/302 H01L21/304 H01L21/677 H01L21/68 H01L21/683 H01L21/687 (Advanced/Invention); B23H7/00 H01L21/18 H01L21/302 (Advanced/Non–invention); B05C21/00 B05D3/10 B08B1/04 B65G49/00 C23C18/16 C23C18/18 C23C18/31 C25D17/00 C25D7/12 H01L21/00 H01L21/02 H01L21/67 (Core/Invention); H01L21/304 (Core/Non–invention)

**International class** (IPC 1–7): B05D5/12 B08B1/04 C23C16/00 C23C18/04 C23C18/18 C23C18/31 C23G1/00 C25D7/12 H01L21/18 H01L21/288 H01L21/304 H01L21/68

**CPC:** C25D7/123 C25D17/001 C25D17/08 Y10S134/902 Y10S134/901 H01L21/67161 C23C18/1628 C23C18/1893 H01L21/67051 H01L21/67173 H01L21/6719 H01L21/67196 H01L21/6723 H01L21/67742 H01L21/67751 H01L21/67781 H01L21/68707 H01L21/68721 C23C18/163 C23C18/1632 C23C18/1886 H01L21/67126 H01L21/67766 Y10T279/11

**European class:** C23C18/16B6D C23C18/16B6D2 C23C18/16B6F C23C18/18B6D C23C18/18B6D4 C25D17/00 C25D7/12 H01L21/00S2Z H01L21/677B2 H01L21/677B8 H01L21/677D10B H01L21/677D2 H01L21/67S2D4W4 H01L21/67S2M H01L21/67S2Z10P H01L21/67S2Z2 H01L21/67S2Z2L H01L21/67S2Z6 H01L21/67S2Z8 H01L21/687G H01L21/687S H01L21/687S2

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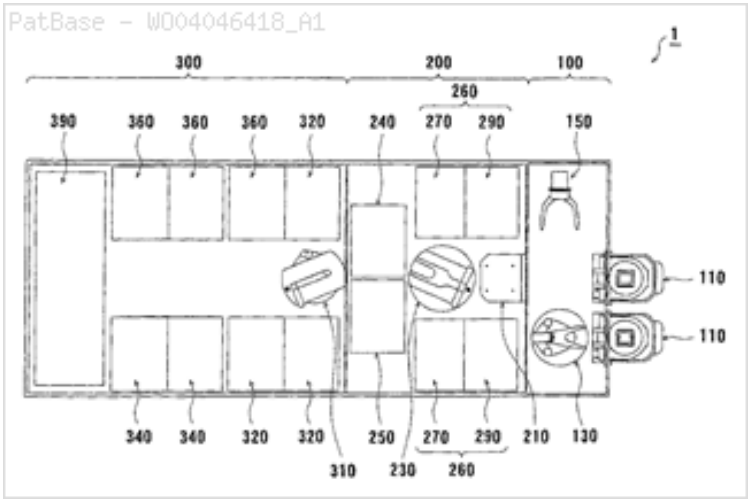
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**Abstract:**
Source: US2004131766A The present invention provides a substrate processing method and apparatus which can securely carry out a pre−plating treatment that enables uniform plating in the necessary area of the surface of a substrate. The substrate processing method including: carrying out a cleaning treatment and a catalyst−imparting treatment of a surface of a substrate as pre−plating treatments; and then electroless plating a metal film on the catalyst−imparted surface of the substrate, wherein the cleaning treatment is carried out in a wider area of the surface of the substrate than that area to which a catalyst is imparted by the catalyst−imparting treatment.



0) DE29807899U1 – DEVICE FOR THE PRODUCTION OF ELECTRO–CHEMICAL R...

**47) Family number: 16960804** (DE29807899U1) © PatBase

**Title:** Device for the production of electro–chemical rivers

**Priority:** DE19982007899U 19980502

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| DE29807899 U1 | 19980709 | DE19982007899U | 19980502 |

**Probable Assignee:** SCHNORR WOLFGANG

**Assignee(s):**(std): SCHNORR WOLFGANG

**Assignee(s):** SCHNORR WOLFGANG 60437 FRANKFURT DE

**International class (IPC 8–9):** H01M4/06 H01M6/04 (Advanced/Invention); H01M4/06 H01M6/04 (Core/Invention)

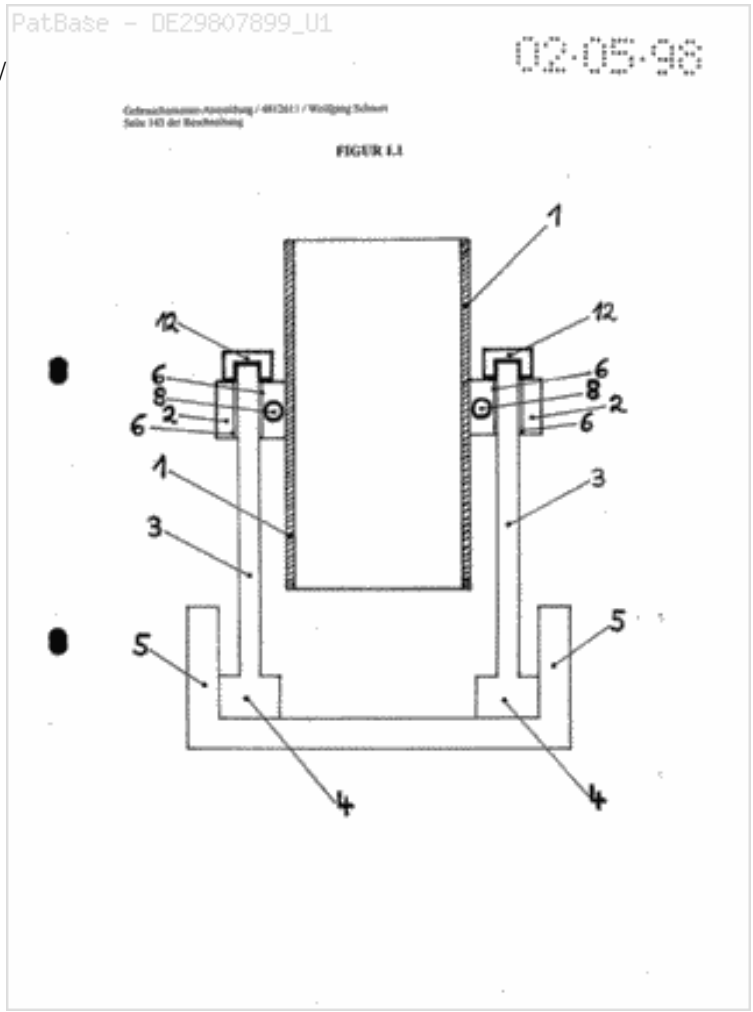
**International class (IPC 1–7):** H01M14/00

**CPC:** H01M4/06 H01M6/04

**European class:** H01M4/06 H01M6/04 Y02E60/12

Classification Explorer

**Abstract:**
Source: DE29807899U1 (Claim 1) Gebrauchsmuster– A nmeldung / 4 8 1 2 6 11 / Wolfgang SchnorrSeite 1 zu Schutzanspruche Schutzanspruche 1) Vorrichtung zur Erzeugung elektrochemischer Stroeme, dadurch gekennzeichnet, dassein Metallblech (1), durch welches eine Elektrode dargestellt wird, in der Form eines Rohresgebogen ist, so dass durch das geformte Metallblech ein Kreiszylinder mit offenenGrundflaechen repraesentiert wird und von einer Klammer (2) umschlossen wird, welcheueber in mit der Klammer verbundene Oesen, welche jeweils mit einer Klemmvorrichtungversehen sind, einfassende Achsen (3) in der Weise mit zwei Standfuessen (4) verbundenist, dass das von der Klammer umschlossene rohrfoermig gebogene und in der Formgestaltungeines hohlen Kreiszylinders mit offenen Grundflaechen ausgebildete Metallblech (1) inder Weise ausgerichtet ist, dass die offenen Grundflaechen des durch das geformte Metallblechrepraesentierten Kreiszylinders parallel zur Ebene liegen, auf welcher die mit der dasgeformte Metallblech umfassenden Klammer verbundenen Standfuesse aufgesetzt sind, undsich eine offene Grundflaeche des Kreiszylinders oberhalb einer mit einer Fluessigkeit bef ue llbarenSchale (5) befindet; die mit der das geformte Metallblech umfassenden Klammer verbundenen Standfuesse auch in den Innenraum der mit einer Fluessigkeit befuellbare n Schaleeinfassen bzw.




**Machine translation:** (Claim 1) utility model A nmeldung/4 8 1 2 6 11/Wolfgang SchnorrSeite 1 to requirements for protection Requirements for protection 1) Device for the production of electro–chemical rivers, thereby characterized, that in Metallblech (1), by which an electrode is represented, in the form one is tubingcurved, so that by the formed Metallblech a circular cylinder with open surface areas is

represented and by a clammy one (2) is enclosed, some over into eyes, which in each case are with clamping device mistake, connected with that clammy ones, setting in axles (3) in the way with two condition feet (4) group NIST that of that clammy one is aligned umschlossene the tubularly bent and in Formgestaltungeines of hollow circular cylinder with open surface areas trained Metallblech (1) Indian way that the open surface areas of the circular cylinder metal–sheet metal–represented by the formed parallel to the level, on which the condition feet connected with that–formed Metallblech comprehensive clammy one are put on, an open surface area of the circular cylinder above one with a liquid attachment ue llbarenSchale (5) lies is; the clammy ones of connected condition feet also into the interior of the n bowl setting, in fillable comprehensive with that the formed Metallblech, with a liquid and/or.

0) US2009229187A – DOUBLE–SIDED DOOR MODULE

**48) Family number: 43722895** (US2009229187A) © PatBase

**Title:** DOUBLE–SIDED DOOR MODULE

**Priority:**

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**Family:**

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**Assignee(s):** WILCOX MICHELLE E ; WHIRPOOL CORP

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**Designated states:** AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

**International class (IPC 8–9):** A23B7/152 A23L3/015 A23L3/3418 A23L3/3445 A47B83/00 A47B96/04 A47J41/02 A47J43/00 A47J47/16 B21D47/00 B23P17/00 B23P19/04 B65B31/00 B65B31/04 B65B63/08 B67D5/62 B67D7/80 E05D15/00 E05D5/02 F15D1/00 F16D3/00 F16K31/02 F16L3/00 F16M13/02 F17D1/16 F25B19/00 F25B45/00 F25C1/00 F25C5/00 F25C5/18 F25D F25D11/00 F25D13/00 F25D17/04 F25D17/06 F25D19/00 F25D19/02 F25D23/00 F25D23/02 F25D23/04 F25D23/06 F25D23/12 F25D25/00 F25D29/00 F25D3/12 G05D7/00 H01R13/44 H01R13/72 H01R13/73 H01R25/00 H02B1/20 H05K5/02 (Advanced/Invention);
B67D9/00 E05D11/00 F25D23/04 F25D23/12 (Advanced/Non–invention);
A47B83/00 A47J41/00 A47J43/00 B21D47/00 B23P17/00 B23P19/04 B65B31/00 B65B31/04 B65B63/00 B67D7/80 E05D15/00 E05D5/00 F16K31/02 F17D1/00 F25B45/00 F25C1/00 F25C5/00 F25D11/00 F25D13/00 F25D17/04 F25D17/06 F25D19/00 F25D23/00 F25D23/02 F25D23/04 F25D23/06 F25D23/12 F25D25/00 F25D29/00 G05D7/00 (Core/Invention);
F25D (Subclass/Invention)

**International class (IPC 1–7):** F25D25/00

**CPC:** F25C5/187 F25C2400/10 F25D2331/81 F25D2331/803 H02B1/20 A23L3/0155 H05K5/0247 H01R13/72 F25D19/02 F25D23/028 F25D23/00 Y10T16/558 Y10T29/49629 Y10T29/49 Y10T29/4998 H01R13/44 A23L3/3418 A23L3/3445 E05D11/0081 E05Y2800/10 E05Y2900/31 F25C5/005 F25C5/182 F25D23/02 F25D23/061 F25D23/126 F25D2323/023 F25D2323/024 F25D2331/805 F25D2400/40 F25D2500/02 F25D17/042 F25D23/04 F25D23/12 F25D29/005 F25D2317/043 F25D2331/801 F25D2400/16 E05Y2800/71 Y10T29/49359 Y10T29/53 Y10T137/0396 Y10T137/6851 Y10T307/461 Y10T307/469 Y10T307/477 Y10T307/937 F16M13/02 Y10T403/18 A47J47/16 F25D2400/18

**European class:** A23L3/3418 A23L3/3445 F25C5/00B2 F25C5/18B F25C5/18B4 F25D17/04A F25D23/00 F25D23/02 F25D23/04 F25D23/06A F25D23/12 F25D23/12B F25D29/00D P05Y900/310 R25C400/10 R25D23/02 R25D23/04 R25D23/12 R25D23/12B R25D317/043 R25D323/023 R25D323/024 R25D331/801 R25D331/803 R25D331/805 R25D331/810 R25D400/16 R25D400/40 R25D500/02

**US class:** 1/1 137/14 137/14P 137/14S 137/343 137/343S 16/387 16/387S 212/223.6 222/146.6 222/146.600S 248/127 251/129.15 251/129.150S 285/33 29/527.1 29/527.100P 29/592 29/592S 29/700 29/700S 29/890.035 29/897.32 29/897.320S 307/139 307/154 307/38 307/39 307/40 312/223.6 312/237 312/237P 312/295 312/404 312/405 312/405.1 312/405S 403/24 403/24P 439/116 439/116S 439/131 439/501 49/400 49/400P 53/127 53/127S 53/167 53/408 53/408P 53/432 53/432P 53/434 53/510 53/510S 53/512 53/512S 53/79 53/79P 53/84 53/84S 53/86 53/86S 62/100 62/135 62/137 62/137P 62/169 62/259.1 62/268 62/292 62/292S 62/331 62/344 62/344S 62/377 62/377S 62/407 62/407S 62/430 62/430S 62/440 62/447 62/448 62/449 62/449P 62/449S 62/452 62/452S 62/454 62/454S

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Classification Explorer

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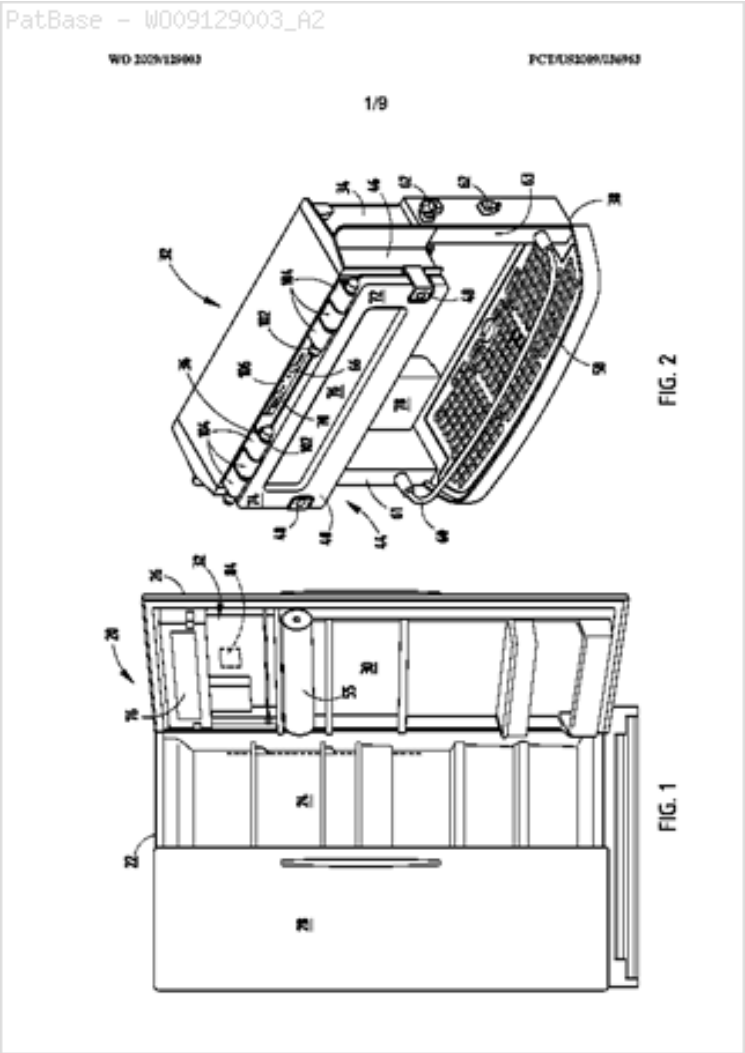
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CN1225253 A, CA2370912 AA,

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**Abstract:**
Source: US2009229187A A door assembly for an appliance includes a door having an interior side and an exterior side. A frame defines an aperture extending through the door from the interior side to the exterior side. A module is disposed in the aperture. The module includes a first component and a second component. The second component disengageably connects with the first component. A pivot member is operably coupled with the module and with the frame. The module is rotatable about the pivot member thereby allowing access to both the first component and the second component from the exterior side of the door body.



**49) Family number: 56664332** (US2014158514A) © PatBase

**Title:** METHODS OF SEPARATING SALTS AND SOLVENTS FROM WATER

**Priority:** US20120734491P 20121207 US20120735211P 20121210 US20130099283 20131206 US20130099306 20131206 US20130099268 20131206 US20130099237 20131206 US20130757891P 20130129 US20130768486P 20130224 US20130786942P 20130315 US20130878861P 20130917 US20130784099P 20130314 US20130786972P 20130315 US20140216338 20140317 US20140310388 20140620 WO2013US73598 20131206

**Family:**

| Publication number | Publication date | Application number | Application date |
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| AR093877 AA | 20150624 | AR2013P104583 | 20131209 |
| AU2013355091 AA | 20140612 | AU20130355091 | 20131206 |
| CA2846955 AA | 20140915 | CA20142846955 | 20140317 |
| CA2894162 AA | 20150605 | CA20132894162 | 20131206 |
| CL2015001527 A1 | 20160108 | CL20150001527 | 20150604 |
| CN105451888 A | 20160330 | CN201380071816 | 20131206 |
| EP2928612 A1 | 20151014 | EP20130811334 | 20131206 |
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| IN05298DN2015 A | 20160812 | IN2015DN05298 | 20150617 |
| JP2016504186 T2 | 20160212 | JP20150545875T | 20131206 |
| MX2015007184 A1 | 20160307 | MX20150007184 | 20131206 |
| PE12012015 A1 | 20150831 | PE20150000761 | 20131206 |
| SG11201504419R A | 20150730 | SG20151104419 | 20131206 |
| US2014158514 AA | 20140612 | US20130099283 | 20131206 |
| US2014158616 AA | 20140612 | US20130099306 | 20131206 |
| US2014158631 AA | 20140612 | US20130099237 | 20131206 |
| US2014158632 AA | 20140612 | US20130099268 | 20131206 |
| US2014261018 AA | 20140918 | US20140216338 | 20140317 |
| US2014299529 AA | 20141009 | US20140310388 | 20140620 |
| UY35178 A1 | 20140731 | UY20130035178 | 20131206 |
| WO14089443 A1 | 20140612 | WO2013US73598 | 20131206 |

**Probable Assignee:** ADVANCED WATER RECOVERY LLC

**Assignee(s):(std):** KATZ DESIGN INC ; ADVANCED WATER RECOVERY LLC

**Assignee(s):** DUCHESNE SYLVAIN1026 MILTIMOREBROMONTQ1J2L 2A8CA ; KATZ DESIGN INC225 – 4710 ST–AMBROISEMONTREALQ1H4C 2C7CA ; FOSTER ROBERT ; GOVIND RAKESH ; KATZ ROBERTD–507 – 4150 SAINT–AMBROISEMONTREALQ1H4C 0A7CA

**Inventor(s):(std):** FOSTER ROBERT ; GOVIND RAKESH ; KATZ ROBERT ; DUCHESNE SYLVAIN ; RAKESH GOVIND ; ROBERT FOSTER

**Inventor(s):** DUCHESNE SYLVAIN1026 MILTIMOREBROMONTQ1J2L 2A8CA ; KATZ ROBERTD–507 – 4150 SAINT–AMBROISEMONTREALQ1H4C 0A7CA

**Agent(s):** MADDERNS PATENT AND TRADE MARK ATTORNEYS; SMART AND BIGGAR; FURMAN IP LAW AND STRATEGY PC; BEUCHAT BARROS AND PFENNIGER; FINDLAY ALICE ROSEMARY; JEFFERIES DAVID E ET AL

**Designated states:** AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

**International class (IPC 8–9):** A47J19/00 A47J43/044 A47J43/08 A47J43/24 B01D1/06 B01D1/14 B01D17/02 B01D61/00 B01D61/02 B01D61/14 B01D61/58 B01D63/00 B01D65/00 B01D9/00 B01F3/00 B01F3/08 B03D B03D1/016 B04C3/02 C01D3/04 C02F1/04 C02F1/08 C02F1/24 C02F1/26 C02F1/44 C02F1/469 C02F1/52 C02F1/54 C02F1/58 E21B43/34 (Advanced/Invention); B03D (Subclass/Invention)

**CPC:** B01D17/0205 B03D1/016 B03D2201/007 B03D2203/008 B01D9/0031 B01D9/0036 B01D9/0054 C02F1/4693 A47J43/24 C02F1/24 C02F1/385 C02F1/40 C02F1/441 C02F1/444 C02F1/5236 C02F1/56 C02F1/66 C02F1/68 C02F2001/007 C02F2001/5218 C02F2101/10 C02F2303/20 C02F2303/22 B01D61/04 B01D65/08 B01D2311/04 B01D2311/2642 C02F1/447 C02F2301/063 C02F1/5245 C02F1/5281 B01D1/06 C02F1/043 C02F1/08 C02F1/048 C02F1/265 C02F1/442 C02F2101/108 C02F1/5272 B03D1/008 B03D1/01 B03D1/1431 B03D1/1462 B03D1/242 C02F1/727 C02F1/74 C02F2101/203 C02F2101/32 C02F2101/325 C02F2103/08 C02F2103/10 C02F2305/04 C02F2305/08 E21B43/34

**US class:** 159/6.1 202/185.1 204/665 205/746 205/748 210/195.2 210/205 210/209 210/243 210/512.1 210/636 210/650 210/652 210/702 210/703 210/706 210/710 210/711 210/714 210/729 210/735 252/175 252/60 99/495

Classification Explorer

**Cited documents:** WO9635731 A1, WO13066662 A1, WO11115636 A1, WO08147050 A1, US8158097 BB, US7096931 BB, US7083730 BB, US6702941 BA, US6656327 BB, US6655451 BB, US6365051 BA, US6113797 A, US5983842 A, US5221439 A, US5195578 A, US4924936 A, US4132759 A, US4110402 A, US3846254 A, US3530923 A, US3457982 A, US3423294 A, US3370635 A, US3029133 A, US2993480 A, US2013075064 AA, US2012279925 AA, US2012145635 AA, US2008047903 AA, US2007267334 AA, US2007119987 AA, US2007108640 AA, US2006150892 AA, US2005051418 AA, US1831251 A, US1355702 A, KR100841795 B1, CN102115223 A,

**Forward Citations:** USD769677, USD757500, US9624111, US9427705, US9206060, US9138660, US2014360936, US2014102157, EP3090806, CN105198147, CN104986886,

**Abstract:**
Source: US2014158514A Methods and apparatus for separation of one or more salts from water are described. The methods include addition of a water miscible solvent to the water, followed by separation of the precipitated salt in a slurry, and evaporation of the water miscible solvent from the slurry. The apparatus include a novel design for a wetted wall separator tube that allows the solids in the slurry to pass through while providing efficient evaporation of the water miscible solvent from the water.

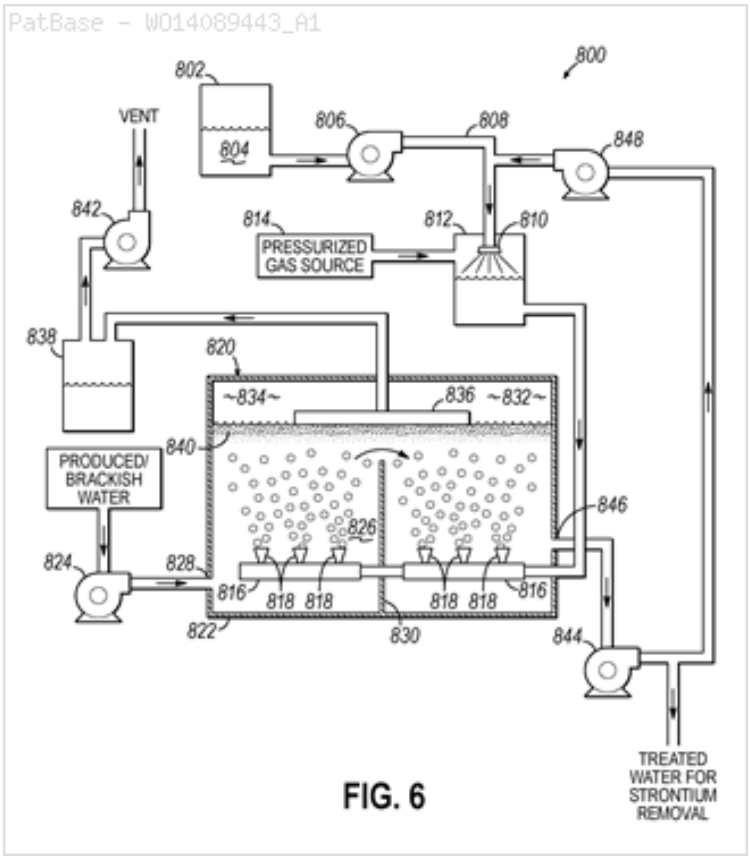



FIG. 6

0) US6332705B – STIRRING DEVICE WITH VESSEL CENTERING AND STABI...

**50) Family number: 13094554** (US6332705B) © PatBase

**Title:** STIRRING DEVICE WITH VESSEL CENTERING AND STABILIZING MEANS

**Priority:** DE19971009236 19970306 DE19971009237 19970306 DE19985002061 19980306 WO1998EP01303 19980306 DE19971024046 19970607

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| DE19709236 A1 | 19980910 | DE19971009236 | 19970306 |
| DE19709237 A1 | 19980910 | DE19971009237 | 19970306 |
| DE19724046 A1 | 19981210 | DE19971024046 | 19970607 |
| DE59802061 D1 | 20011213 | DE19985002061 | 19980306 |
| EP0966321 A1 | 19991229 | EP19980913671 | 19980306 |
| EP0966321 B1 | 20011107 | EP19980913671 | 19980306 |
| US6332705 BA | 20011225 | US19990380538 | 19991210 |
| WO9839089 A1 | 19980911 | WO1998EP01303 | 19980306 |

**Probable Assignee:** H AND P LABORTECHNIK GMBH

**Assignee(s):**(std)**:** HERZ HELMUT ; HERZ HELMUT DR ING ; KAUFMANN KLAUS ; KAUFMANN KLAUS DR ING

**Assignee(s):** KENDRO L ORATORY PRODUCTS GMBH AB ; HERZ HELMUT LAUTERBACHSTRASSE ; KENDRO LABORATORY PRODUCTS GMBH ; HERZ HELMUT DR ING 85764 OBERSCHLEISHEIM DE ; KAUFMANN KLAUS DR ING 85764 OBERSCHLEISHEIM DE ; HERZ HELMUT DR ING 80997 MUENCHEN DE ; H AND P L ORTECHNIK GMBH AB ; H AND P LABORTECHNIK GMBH

**Inventor(s):**(std)**:** HERZ HELMUT ; HERZ HELMUT DR ING ; KAUFMANN KLAUS ; KAUFMANN KLAUS DR ING

**Inventor(s):** HERZ HELMUT DR ING 85764 OBERSCHLEISHEIM DE

**Designated states:** AT BE CH DE DK ES FI FR GB GR IE IT JP LI LU MC NL PT SE US

**International class (IPC 8–9):** B01F13/04 B01F13/08 B01F7/16 B01F9/10 B01L7/00 B01L99/00 (Advanced/Invention); B01F13/00 B01F9/00 (Core/Invention)

**International class (IPC 1–7):** B01F13/04 B01F13/08 B01F7/16 B01F9/10 B01L11/00 B01L7/00 E04B1/82 E04F15/20

**CPC:** B01F9/002 B01F9/10 B01F15/00525 B01F15/066 B01F2015/061 B01F7/16 B01F13/04 B01L7/00 B01L99/00 B01F9/0016 B01F9/003 B01F15/00733

**European class:** B01F15/00L8E B01F15/06F B01F9/00G2B B01F9/10 L01F15/06A

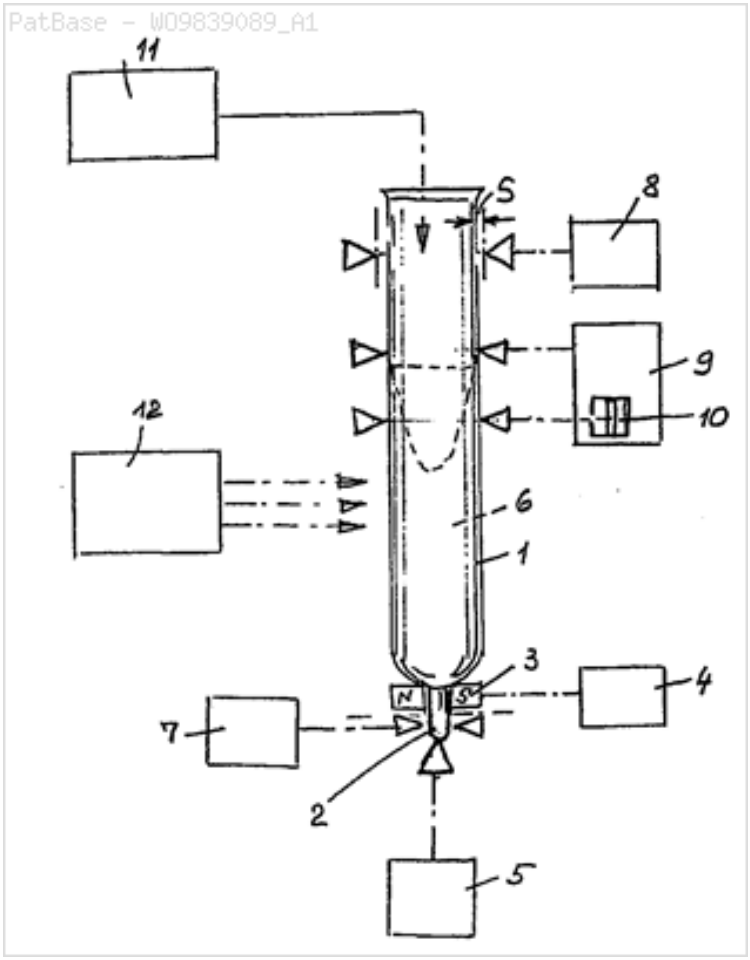
**US class:** 366/144 366/208 366/213 366/214 366/220 366/232

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**Cited documents:** US5399013 A, US5352036 A, US5195825 A, US4390283 A, US4345843 A, US3627276 A, EP0035762 A2, DE9421652 U, DE9406450 U, DE9406450 U, DE4214866 C1, DE29709966 U1, DE29709966 U, DE2970996,

**Forward Citations:** US9636647, US9511334, US9295109, US8550697, US8476080, US8211386, US7883265, US7296924, US6802642, US2011096620, US2010187253, US2009189049, US2009035825, US2007063966, US2005180258, JP5557732, JP2012139608, ITFI20110198, DE102008041104, DE102008041104,

**Abstract:**
Source: US6332705B A device for stirring, mixing, and agitating liquids includes a vessel 1 having vertical supporting elements (2, 5) to support at least part of the weight of the vessel, rotational holding elements (7, 8) for positioning and guiding the vessel as it rotates around its essentially vertical symmetrical axis, and driving elements (3, 4) for rotating the vessel. The rotational holding elements are provided with centering and stabilizing devices (9, 10) which exert in a clearance S between the rotational holding devices and an outer wall of the vessel, centering and stabilizing forces acting on the vessel.



0) US2003201237A – SHALE SHAKERS

**51) Family number: 15850169** (US2003201237A) © PatBase

**Title:** SHALE SHAKERS

**Priority:**

| | | | | | |
|---|---|---|---|---|---|
| CA20052546704 | 20050429 | CA20052635163 | 20050429 | CA20062626927 | 20061116 |
| CA20062711780 | 20061116 | CA20052635728 | 20050429 | CA20082546704 | 20080807 |
| EP20060808759 | 20061116 | US20020134027 | 20020426 | GB20030001508 | 20030123 |
| EP20050738666 | 20050429 | CA20102626927 | 20100914 | CA20082546704 | 20080815 |
| GB20020024158 | 20021017 | EP20060794990 | 20061017 | US20030512372 | 20030313 |
| US20050255160 | 20051020 | US20050049003 | 20050201 | US20050255159 | 20051020 |
| US20050059584 | 20050216 | US20040825590 | 20040415 | US20050056951 | 20050211 |
| US20030353650 | 20030129 | US20050253067 | 20051018 | US20050096192 | 20050331 |
| US20040949882 | 20040925 | US20040835256 | 20040429 | US20040512372 | 20041025 |
| US20030373216 | 20030224 | US20020424262P | 20021106 | US20040546261P | 20040220 |
| WO2003US35594 | 20031106 | US20080231293 | 20080829 | US20080317073 | 20081218 |
| US20090417876 | 20090403 | US20090322349 | 20090131 | US20090322348 | 20090131 |
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**Designated states:** AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

**International class (IPC 8–9):** A61B1/00 A61B1/04 A61B5/06 B01D21/00 B01D21/28 B01D21/30 B01D24/28 B01D29/44 B01D33/03 B01D33/37 B01D35/14 B04B1/20 B04B13/00 B04B9/10 B07B1/00 B07B1/28 B07B1/34 B07B1/36 B07B1/40 B07B1/42 B07B1/46 B07B1/48 B07B1/49 B07B13/00 B07B13/16 B07B13/18 B07B4/08 B07B9/02 B07C5/00 B07C5/08 E21B15/00 E21B17/00 E21B17/01 E21B19/00 E21B19/06 E21B19/07 E21B19/16 E21B21/06 E21B21/07 E21B21/08 E21B21/10 E21B23/00 E21B41/00 E21B44/00 E21B47/00 E21B47/01 E21B47/013 E21B47/02 E21B47/09 E21B47/12 E21B47/26 E21B7/00 F16G13/00 F16G15/12 F16K37/00 F16K47/04 F16L9/00 F24B15/00 G01L25/00 G01V15/00 G01V3/00 G01V3/18 G05B15/02 G06F19/00 G06K19/07 G06K7/00 G06Q10/00 G06Q10/06 H04B7/00 (Advanced/Invention);
A61B34/10 A61B34/20 A61B90/00 E21B19/16 E21B21/06 (Advanced/Non–invention);
A61B1/00 B01D21/00 B01D29/44 B01D33/00 B01D35/14 B04B1/00 B04B13/00 B04B9/00 B07B1/00 B07B1/28 B07B1/42 B07B1/46 B07B13/00 B07C5/04 E21B17/00 E21B19/00 E21B21/00 E21B23/00 E21B41/00 E21B44/00 E21B47/00 E21B47/12 E21B7/00 F16G13/00 F16L9/00 G01V15/00 G01V3/00 G05B15/02 H04B7/00 (Core/Invention);
E21B21/00 (Core/Non–invention);
G06F (Subclass/Invention)

**International class (IPC 1–7):** A61B1/04 B01D24/30 B01D33/00 B01D33/03 B01D35/14 B01D35/20 B07B1/00 B07B1/42 B07B1/46 B07B1/49 E21B17/00 E21B21/08 E21B21/10 E21B44/00 E21B47/01 E21B47/09 F16K37/00 F16K47/04 G01L25/00 G06F17/60 G06F19/00

**CPC:** B04B1/2016 B04B1/20 E21B17/006 B07B1/4654 B07B1/4663 E21B19/06 E21B19/07 E21B19/165 E21B21/065 E21B44/00 E21B47/122 E21B17/01 E21B19/16 E21B47/011 E21B15/00 E21B19/00 G06K19/0723 E21B10/00 B07B1/4618 E21B21/08 E21B21/10 E21B21/106 B01D2201/52 B01D21/0012 B01D21/283 E21B47/00 G06Q10/06 E21B21/06 B07B1/4609 B07B4/08 B07B9/02 B07B13/16 B07B1/42 B01D33/0315 B01D33/0376 B07B1/28 B07B1/46 B07B13/18 B07B2230/01 B01D33/76 B01D33/37 B01D33/722 A61B5/065 A61B1/00009 A61B1/0005 A61B1/00183 A61B2034/107 A61B2034/2048 A61B2090/364 A61B2090/368

**European class:** A61B1/00 A61B1/00C1D A61B1/00C7B4 A61B1/00P7 A61B1/00S4H A61B5/06E B01D21/00F B01D21/28A B01D33/03C2 B01D33/03F5 B04B1/20 B04B1/20D B07B1/28 B07B1/42 B07B1/46 B07B1/46B B07B1/46B10 B07B1/46B12 B07B1/46B2 B07B13/16 B07B13/18 E21B10/00 E21B15/00 E21B17/00M E21B17/01 E21B19/00 E21B19/06 E21B19/07 E21B19/16 E21B19/16C E21B21/06N2 E21B21/08 E21B21/10 E21B21/10S E21B44/00 E21B47/00 E21B47/01P E21B47/12M G06K19/07T G06Q10/06 G06Q20/123 G06Q20/18 G07F17/00C G07F17/26 G07F17/30B G11B17/08 G11B27/034 G11B31/00 H04N5/77 K61B19/50D K61B19/52H12B2 K61B19/52L K61B19/52L8 L01D201/52 L07B230/01 S11B220/21C2 S11B220/25D2 S11B220/25D3 T04N5/775 T04N5/85

**US class:** 1/1 166/250.01 166/250.010P 166/254.1 166/255.1 166/255.100P 166/367 166/367S 166/381 166/64 166/65.1 166/65.100S 166/66 166/77.1 175/25 175/38 175/40 175/40S 175/45 175/48 209/19 209/19S 209/250 209/309 209/311 209/315 209/319 209/326 209/363 209/365.1 209/365.100S 209/365.4 209/365.400S 209/370 209/393 209/401 209/403 209/404 209/405 209/412 209/413 209/552 209/552S 209/555 209/555P 210/144 210/144S 210/384 210/384S 210/388 210/388S 210/744 210/744S 210/780 210/785 210/785P 210/86 210/86P 210/87 210/87S 210/97 210/97S 340/10.1 340/10.100S 340/572.7 340/572.8 340/853.1 340/853.100S 340/853.2 386/344P 386/E50.69S 404/84.05 405/224.2 405/224.200P 494/10 494/37 494/37P 494/42 494/53 494/53S 494/7 494/7P 494/8 494/84 494/84S 494/8S 494/9 59/78 59/82 59/84 59/84P 59/93 600/117

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Classification Explorer

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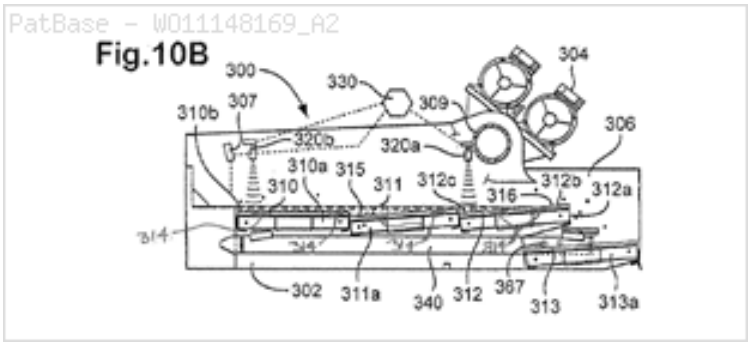
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**Abstract:**
Source: US2003201237A A shale shaker or vibratory separator which, in one aspect, has a base, vibration isolation apparatus on the base, a basket, mount apparatus for mounting the basket on the base, and at least one of the base, basket, and the mount apparatus made of, encased in, or coated with composite material which, in certain aspects, is all or part flexible composite material; and methods of using such separators and shakers.



0) US2001017817A – PRODUCT LABELING METHOD AND APPARATUS

**52) Family number: 28313446** (US2001017817A) © PatBase

**Title:** PRODUCT LABELING METHOD AND APPARATUS

**Priority:**

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| US19970834634 | 19970414 | US19970832613 | 19970328 | US19970955475 | 19971021 |
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| US19980096269P | 19980812 | US19990426553 | 19991022 | US19980185137 | 19981103 |
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**Family:**

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| WO0025720 A2 | 20000511 | WO1999US25875 | 19991102 | |
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| WO0025720 C2 | 20010201 | WO1999US25875 | 19991102 | |

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**Inventor(s):**(std)**:** DE LA HUERGA CARLOS ; DELAHUERGA CARLOS ; HUERGA CARLOS DE LA ; SORKIN FELIX L

**Inventor(s):** CARLOS DE LA HUERGA

**Agent(s):** MBM AND CO; MOFFAT AND CO; QUARLES AND BRADY LLP; ANDRUS SCEALES STARKE AND SAWALL LLP; QUARLES AND BRADY

**Designated states:** AE AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CR CU CY CZ DE DK DM EE ES FI FR GA GB GD GE GH GM GN GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LK LR LS LT LU LV MC MD MG MK ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT TZ UA UG UZ VN YU ZA ZW

**International class (IPC 8–9):** A61J1/00 A61J1/03 A61J1/14 A61J7/00 A61J7/04 A61M5/14 A61M5/142 A61M5/168 B42D15/00 B65B59/00 B65C3/08 B65D85/00 E04C5/12 G04B37/00 G04B47/00 G04G15/00 G04G21/04 G06F1/00 G06F13/00 G06F15/173 G06F17/00 G06F17/60 G06F19/00 G06F21/00 G06K5/00 G06Q50/00 G07C9/00 G07F11/00 G07F17/00 G08B13/14 G09F3/00 G09F3/04 H04L29/06 (Advanced/Invention); G06F19/00 G06K17/00 (Advanced/Non–invention); A61J1/00 A61J1/14 A61J7/00 A61M5/142 A61M5/168 B65C3/00 E04C5/12 G04B47/00 G04G1/00 G04G15/00 G06F1/00 G06F17/00 G06F19/00 G06F21/00 G06K5/00 G07C9/00 G07F11/00 G07F17/00 G08B13/14 G09F3/00 G09F3/04 (Core/Invention); G06K17/00 (Core/Non–invention)

**International class (IPC 1–7):** A61J7/04 E04C5/12 G04B37/00 G04B47/00 G06F13/00 G06F15/16 G06F17/00 G06F17/30 G06F3/00 G08B13/14 G08B23/00 H04L9/00 H04L9/30 H04L9/32

**CPC:** Y10S707/99945 Y10S707/99948 G04R60/04 A61J2205/70 A61J2205/20 A61J2205/50 A61J2200/70 G06K2017/009 G04G15/006 G09F3/005 A61J2205/60 G04G21/04 A61J2205/10 A61M5/14212 A61M5/16827 A61M2205/3561 A61M2205/3569 A61M2205/3592 A61M2205/60 A61M2205/6063 A61M2205/6072 G06F19/323 G06F19/3468 G06Q50/22 G06Q50/24 G06F19/322 G06F19/326 G06F19/327 G06F19/3418 H04L63/0492 H04L63/0853 H04L63/105 H04L63/108 A61J2200/30 G06F21/35 G06F2221/2111 G07C9/00111 E04C5/12 A61J2205/30 A61J1/03 A61J1/1437 G06K19/07762 A61J7/0046 A61J7/04 A61J7/0481 A61J1/035 A61J7/0084 A61J7/0418 A61J7/0436 A61J7/0445 A61J7/0454 Y10T24/44077 Y10T24/44034 Y10T24/3909 G07C9/00182 G06F19/3462 G06F19/366 B65C9/46 B41J3/4075 G01N2035/00861 B01L3/545

**European class:** A61J1/00C10 A61J1/03B A61J1/14D A61J7/00F1 A61J7/04B3 A61M5/142G A61M5/168A11 E04C5/12 G04G1/00D2 G04G15/00C G04G21/04 G06F1/00N5A2D G06F19/00A G06F19/32C G06F19/32C1 G06F19/32E3 G06F19/32G G06F19/34C G06F19/34L1 G06F19/34L3 G06F19/36C G06F21/35 G06K19/077T3D G06Q50/22 G06Q50/24 G07C9/00B10 G07C9/00E2 G09F3/00B H04L29/06C6C2 H04L63/04B16 H04L63/08E H04L63/10F K61J200/30 K61J205/10 K61J205/30 K61J205/60 K61J7/00F1 K61J7/04B1B K61J7/04B1D2 K61J7/04B1D4 K61J7/04B1G K61M205/35R2 K61M205/35R3 K61M205/35T2 K61M205/60 K61M205/60P K61M205/60P2 S06F19/32C S06F19/32C1 S06F19/34C S06F19/34L1 S06F19/36C S06F221/2111 S06K17/00W34 T04L63/10D

**US class:** 1/1 156/42S 206/459.5 221/129 221/15 221/2 221/2S 221/9 221/9S 222/1 222/1S 235/375 235/375P 235/380 235/382 24/122.6 24/459 24/464 283/67 283/67S 283/81 340/10.41 340/10.51 340/3.1 340/5.1 340/5.61 340/5.74 340/5.8 340/5.81 340/539.1 340/539.12

340/572.1 340/572.100S 340/572.8 340/572.9 340/573.1 340/573.100P 340/573.4 340/573.400S 340/7.1 340/8.1 340/825.06 340/825.15 340/825.17 340/825.31 340/825.34 340/825.49 340/825.54 364/479.14 368/10 368/10P 380/23 380/25 380/270 380/30 380/4 380/49 380/9 395/186 395/187.01 395/188.01 40/630 40/630P 428/703S 442/149S 442/327P 442/374P 442/375S 442/381S 442/383S 442/384S 442/398S 442/400S 442/401S 52/223.13 52/223.6 604/151 604/151P 604/93.01 604/93.010S 700/234 700/235 700/236 700/236P 700/241 700/242 700/244 705/2 705/2P 705/2S 705/3 705/3S 707/104 707/104.1 707/999.104 707/999.107 709/217 709/217P 709/219 709/220 709/223 709/223P 709/225 709/227 709/229 709/229P 709/250 709/328 710/8 710/8P 713/176 713/176S 713/185 713/185S 713/200 713/201 713/202 719/328 726/2 726/20 726/2S 726/9

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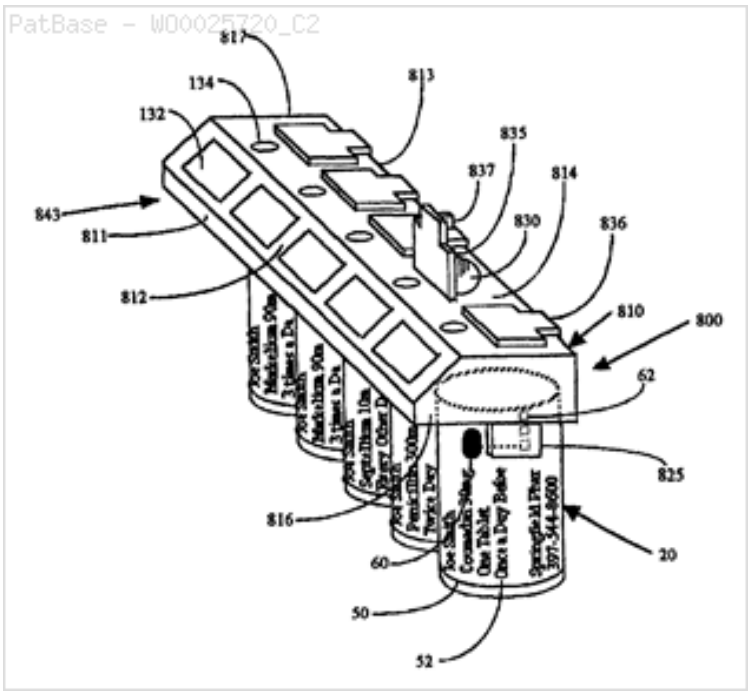
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**Abstract:**
Source: US2001017817A A method and apparatus for configuring indicating configurations for containers wherein at least a subset of indicating configurations include an enhanced indicating device such as an electronic storage device, the containers to include enhanced devices being a function of whether or not the end user uses an interacting device capable of receiving information from the enhanced devices, the method and system indicating whether or not standard or enhanced containers should be used for specific prescriptions or orders and, in some cases, automatically providing the correct container and specifying (i.e., printing and writing) information to the containers.



0) DE3909385A1 – SNAP–ON HINGE MECHANISM SCHNAPPSCHARNIERMECHANI...

**53) Family number: 7726661** (DE3909385A1) © PatBase

**Title:** Snap–on hinge mechanism

**Priority:** DE19883810935 19880331 DE19893909385 19890322

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| DE3909385 A1 | 19900329 | DE19893909385 | 19890322 |

**Probable Assignee:** BAREIN NORBERT

**Assignee(s):**(std)**:** BAREIN NORBERT

**Assignee(s):** BAREIN NORBERT 4050 MOENCHENGLADBACH DE

**Inventor(s):**(std)**:** BAREIN NORBERT

**Inventor(s):** BAREIN NORBERT 4050 MOENCHENGLADBACH DE

**International class (IPC 8–9):** B65D47/08 (Advanced/Invention); B65D47/08 (Core/Invention)

**International class (IPC 1–7):** B65D47/08 B65D55/00

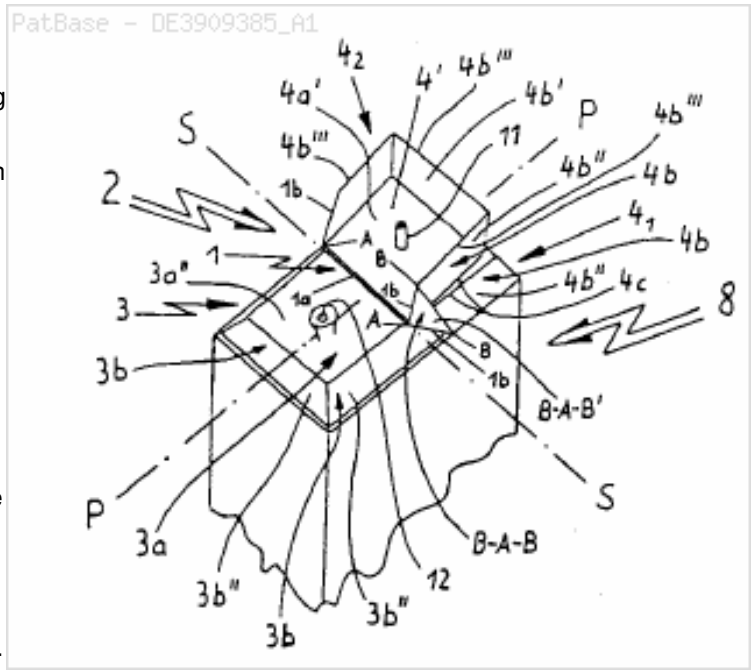
**CPC:** B65D47/0809 B65D2251/1016

**European class:** B65D47/08B1 L65D251/10D

Classification Explorer

**Forward Citations:** US5335802, EP0532471, CH683611,

**Abstract:**
Source: DE3909385A1 The snap–on hinge mechanism is provided, in particular, in conjunction with a closure or tamper–indicating closure, in particular for containers, and, according to a preferred embodiment, has two parts (41), (42) connected by a film hinge (1) in an articulated manner to one another and to two sections (B–A–B). The film hinge (1) deviates, at least in some sections, from the course of the geometrical pivot axis (S–S). At least one constituent of the lid part (4) is of resilient or flexible design here, at least in some sections. The lid part (4) is connected here to the closure bottom part (3) via a film hinge (5) and is folded over from the opened–up position (position of manufacture) into the closed position, the fixed part (41) of the lid part (4) being firmly connected to the closure bottom part (3). During pivoting, for the purpose of exposing a removal opening in the movable part (42) relative to the fixed part (41), about the geometrical pivot axis (S–S) from one of two stable end positions beyond a dead centre point into the other stable end position, a resilient snap–on effect is achieved.



0) US2007270833A – METHODS AND DEVICES FOR TRAUMA WELDING

**54) Family number: 35082756** (US2007270833A) © PatBase

**Title:** METHODS AND DEVICES FOR TRAUMA WELDING

**Priority:**

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**Family:**

| Publication number | Publication date | Application number | Application date |
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**Assignee(s):** P TECH LLC EFFINGHAM

**Inventor(s):**(std)**:** BEYERS JUSTIN E ; BONUTTI PETER M ; CREMENS MATTHEW J

**Inventor(s):** CREMENS MATTHEW J EFFINGHAM ; BEYERS JUSTIN ; BONUTTI PETER M EFFINGHAM ; CREMENS MATTHEW ; BEYERS JUSTIN E EFFINGHAM ; BONUTTI PETER

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**Designated states:** AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

**International class (IPC 8–9):** A61B17/04 A61B17/08 A61B17/32 A61B17/56 A61B17/58 A61B17/68 A61B17/70 A61B17/72 A61B17/74 A61B17/80 A61B17/82 A61B17/84 A61B17/86 A61B17/88 A61F2/02 A61F2/06 A61F2/28 A61F2/30 A61F2/32 A61F2/34 A61F2/38 A61F2/40 A61F2/44 A61F2/46 A61F2/86 A61F2/90 A61L24/00 A61L24/04 A61L24/06 A61L31/12 A61N1/362 B23K20/10 (Advanced/Invention);
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A61B17/03 A61B17/04 A61B17/56 A61B17/68 A61B17/70 A61B17/88 A61F2/02 A61F2/06 A61F2/28 A61F2/30 A61F2/32 A61F2/38 A61F2/44 A61F2/46 A61F2/82 A61N1/362 B23K20/10 (Core/Invention);
G01N3/08 (Core/Non–invention)

**CPC:** A61F2/3886 A61F2002/30457 A61F2002/30485 A61F2002/4689 A61F2002/469 A61F2220/0025 A61B17/0487 A61B17/7098 A61B17/7225 A61B17/7258 A61B17/8802 A61B17/8822 A61F2/82 A61F2/90 A61F2220/0008 A61B17/7062 A61B17/8033 A61B17/7032 A61F2002/828 A61B17/82 A61B17/320068 A61B17/68 A61B17/7266 A61B2017/005 A61B2017/1107 A61F2/0811 A61F2/30 A61F2/30721 A61F2/3094 A61F2/34 A61F2/36 A61F2/44 A61F2/46 A61F2002/067 A61F2002/30067 A61F2002/30576 A61F2002/4619 A61F2002/4683 A61F2310/00952 A61L24/001 A61L24/046 C08L33/04 G06F21/10 G06F2221/0773 G06F2221/2137 A61B17/8038 A61B17/11 A61B17/1128 A61B17/1146 A61B17/686 A61B17/7058 A61B17/7059 A61B17/72 A61B17/80 A61B17/866 A61B17/88 A61B2017/00004 A61B2017/00504 A61B2017/0409 A61B2017/044 A61B2017/8655 A61F2/30756 A61F2/32 A61F2/3603 A61F2/38 A61F2/3804 A61F2/3859 A61F2/389 A61F2/40 A61F2/4202 A61F2/4455 A61F2/468 A61F2002/2817 A61F2002/30062 A61F2002/30065 A61F2002/30133 A61F2002/30451 A61F2002/30604 A61F2002/30677 A61F2002/3068 A61F2002/30785 A61F2002/30787 A61F2002/30878 A61F2002/30892 A61F2002/30894 A61F2002/30971 A61F2002/30973 A61F2002/3401 A61F2002/3403 A61F2002/444 A61F2210/0004 A61F2210/0071 A61F2220/0058 A61F2230/0015 A61F2250/0068 A61F2310/00011 A61F2310/00365 A61F2310/00383 A61B17/8863 A61F2/4081 A61B17/8872 A61B17/8836 A61B17/7233 A61B17/0401 A61B17/1721 A61B17/1742 A61B17/8685

**European class:** A61B17/04A A61B17/68 A61B17/68P A61B17/70B2 A61B17/70J A61B17/70K A61B17/70P A61B17/72 A61B17/72C2 A61B17/72E A61B17/72E6B A61B17/80 A61B17/80D A61B17/82 A61B17/86M A61B17/86P A61B17/88 A61B17/88A A61B17/88F A61B17/88P A61F2/30 A61F2/32 A61F2/38T A61F2/40 A61F2/44 A61F2/46 A61F2/82 A61F2/90 A61L24/00H A61L24/04R K61B17/00A K61B17/00L4 K61B17/00L6 K61B17/04A30 K61B17/04A5 K61B17/04K K61B17/11 K61B17/11B K61B17/11N K61B17/11T K61B17/32U K61B17/70V2 K61B17/72E6 K61B17/80D2 K61B17/86L K61B17/88A2H K61B17/88A4C K61F2/06D2 K61F2/08F K61F2/28D K61F2/30A1W1 K61F2/30A1W2 K61F2/30A1W2L K61F2/30A2K2K K61F2/30A3T33F K61F2/30A3T9 K61F2/30A3T9U K61F2/30A3W14 K61F2/30A3W32 K61F2/30A5D K61F2/30A5D4 K61F2/30B K61F2/30C K61F2/30L2A9P K61F2/30L2A9Q K61F2/30L2S K61F2/30L2S9P K61F2/30L2S9Q K61F2/30M K61F2/30M8 K61F2/30M8T K61F2/32 K61F2/34 K61F2/34A

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**US class:** 1/1 606/213 606/213P 606/28 606/28P 606/28S 606/331 606/60 606/60S 606/61 606/62 606/62P 606/64 606/64P 606/69 606/72 606/86.00RP 606/86R

Classification Explorer

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**Abstract:**
Source: US2007270833A The present invention provides a method for stabilizing a fractured bone. The method includes positioning an elongate rod in the medullary canal of the fractured bone and forming a passageway through the cortex of the bone. The passageway extends from the exterior surface of the bone to the medullary canal of the bone. The method also includes creating a bonding region on the elongate rod. The bonding region is generally aligned with the passageway of the cortex. Furthermore, the method includes positioning a fastener in the passageway of the cortex and on the bonding region of the elongate rod and thermally bonding the fastener to the bonding region of the elongate rod while the fastener is positioned in the passageway of the cortex.

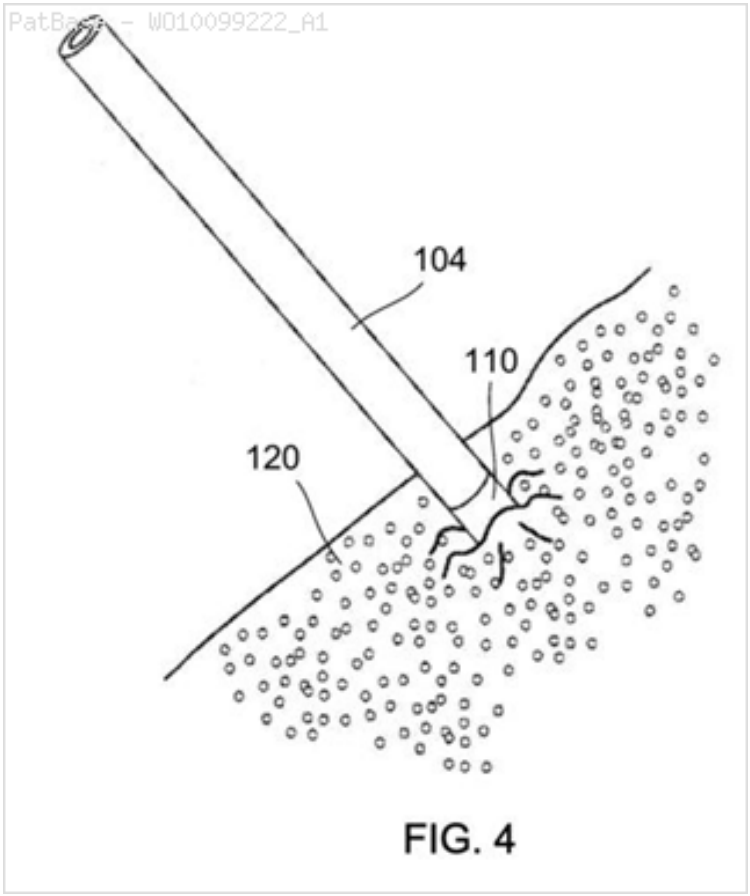



FIG. 4

0) US2001024611A – INTEGRATED TOOLS WITH TRANSFER DEVICES FOR HAND...

**55) Family number: 32091958** (US2001024611A) © PatBase

**Title:** INTEGRATED TOOLS WITH TRANSFER DEVICES FOR HANDLING MICROELECTRONIC WORKPIECES

**Priority:**

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**Designated states:** AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ OM PH PL PT RO RU SC SD SE SG SI SK SL SN SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

**International class (IPC 8–9):** B23H11/00 B25J18/02 B25J18/04 B25J5/00 B25J5/02 B25J9/04 B25J9/06 B65G1/00 B65G37/00 B65G49/07 B66C23/00 C25C7/00 C25D11/32 C25D17/00 C25D17/04 C25D17/06 C25D19/00 C25D21/06 C25D5/00 C25D5/02 C25D5/08 C25D7/12 C25F1/00 H01L21/00 H01L21/288 H01L21/67 H01L21/677 H01L21/68 H01L21/687 H01L21/768 (Advanced/Invention); B25J9/06 B65G1/00 B65G37/00 B65G49/07 C25D17/00 C25D5/08 C25D7/12 C25F1/00 (Advanced/Non–invention); B23H11/00 B25J18/00 B25J5/02 B25J9/02 B65G1/00 B65G37/00 B65G49/07 C25C7/00 C25D11/02 C25D17/00 C25D17/06 C25D19/00 C25D5/00 C25D5/02 C25D7/12 H01L21/00 H01L21/02 H01L21/67 H01L21/70 (Core/Invention); C25D5/00 (Core/Non–invention)

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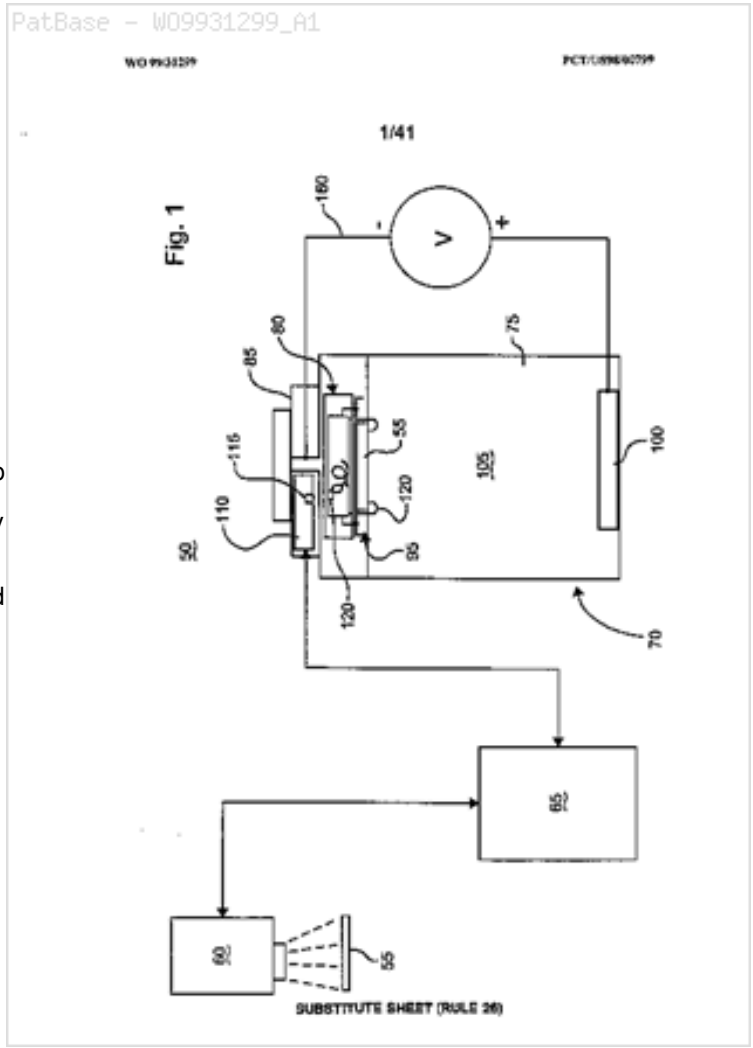
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**Abstract:**
Source: US2001024611A Transfer devices for handling microelectronic workpieces, apparatus for processing microelectronic workpieces, and methods for manufacturing and using such transfer devices. One embodiment of a transfer device includes a transport unit configured to move along a linear track and a lift assembly carried by the transport unit. The transfer device can also include an arm assembly having an arm actuator carried by the lift assembly to move along a lift path and an arm carried by the arm actuator to rotate about the lift path. The arm can include a first extension projecting from one side of the lift path and a second extension projecting from another side of the lift path. The arm actuator can rotate the arm about the lift path. The transfer device can also include a first end−effector and a second end−effector. The first end−effector is rotatably coupled to the first section of the arm to rotate about a first rotation axis, and the second end−effector is rotatably coupled to the second extension of the arm to rotate about a second rotation axis. The first and second rotation axes can be generally parallel to the lift path, which itself can be substantially vertical, and the first and second end−effectors can be at different elevations relative to the arm.



0) US4927605A – SPECIMEN COLLECTION AND SAMPLING CONTAINER

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| AU198783062 A1 | 19881027 | AU19870083062 | 19871224 |
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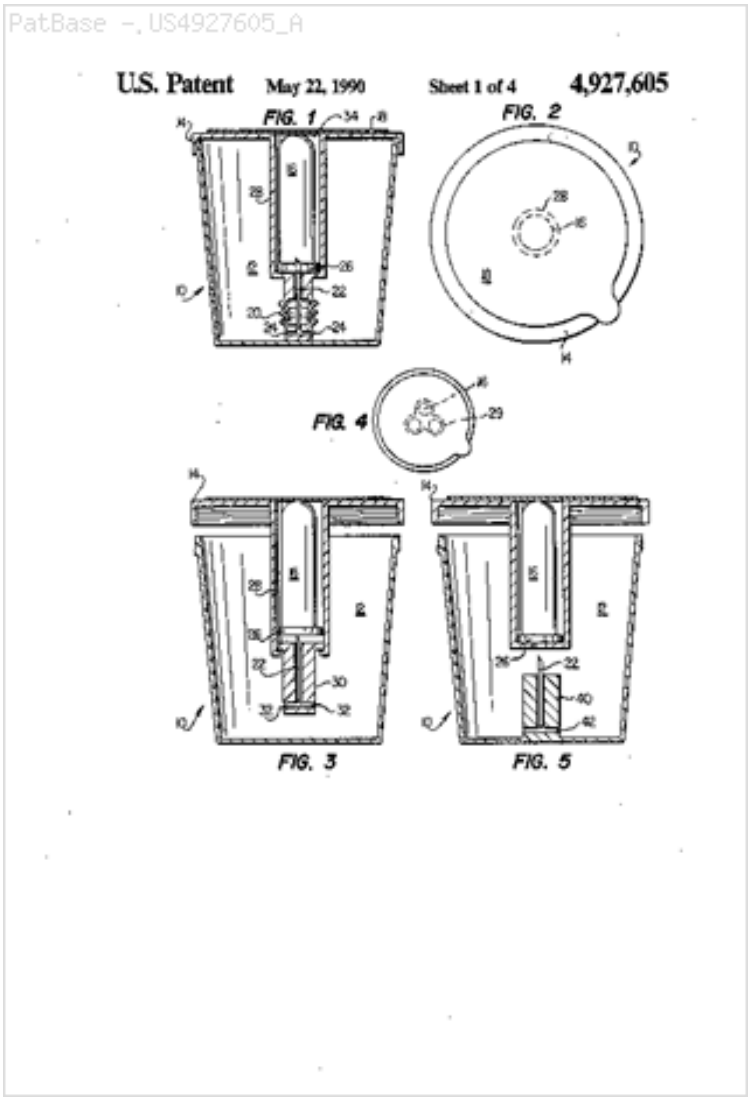
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**Abstract:**
Source: US4927605A The invention provides a specimen collection and sampling device, particularly useful for urine samples, for collecting a liquid sample and segregating an aliquot of the sample away from contact with the remaining portion of the sample. This segregation is accomplished as the lid is closed on the container. In one embodiment, the aliquot sample is transferred to an evacuated tube held within the container. In another embodiment, the aliquot is held within a sample chamber that is built into the container. In a preferred embodiment, the aliquot is mixed with a treating agent to maintain the microbiological integrity of the aliquot, or to provide an appropriate reagent or buffer for drug analysis.



0) US4852736A – METAL CASE FOR HOUSING AN IC AND A MANUFACTURIN...

**57) Family number: 3055098** (US4852736A) © PatBase

**Title:** METAL CASE FOR HOUSING AN IC AND A MANUFACTURING METHOD THEREFOR

**Priority:** CA19880580081 19881013 JP19870261237 19871016 JP19880174598 19880713 JP19880230509 19880914 JP19870269867 19871026

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| AU198823923 A1 | 19890420 | AU19880023923 | 19881017 |
| AU597192 B2 | 19900524 | AU19880023923 | 19881017 |
| CA1277431 A1 | 19901204 | CA19880580081 | 19881013 |
| DE3883908 D1 | 19931014 | DE19883883908 | 19881013 |
| DE3883908 T2 | 19940421 | DE19883883908T | 19881013 |
| EP0312067 A2 | 19890419 | EP19880117061 | 19881013 |
| EP0312067 A3 | 19900214 | EP19880117061 | 19881013 |
| EP0312067 B1 | 19930908 | EP19880117061 | 19881013 |
| JP1904733 C3 | 19950208 | JP19880174598 | 19880713 |
| JP1904735 C3 | 19950208 | JP19880230509 | 19880914 |
| JP2000596 A2 | 19900105 | JP19880174598 | 19880713 |
| JP2000597 A2 | 19900105 | JP19880230509 | 19880914 |
| JP6033015 B4 | 19940502 | JP19880174598 | 19880713 |
| JP6033019 B4 | 19940502 | JP19880230509 | 19880914 |
| KR930009705 B1 | 19931008 | KR19880013511 | 19881015 |
| US4852736 A | 19890801 | US19880257866 | 19881014 |

**Probable Assignee:** SUMITOMO METAL IND LTD

**Assignee(s):**(std)**:** SUMITOMO METAL IND

**Assignee(s):** SUMITOMO METAL IND LTD ; SUMITOMO METAL INDUSTRIES ; SUMITOMO METAL INDUSTRIES LTD ; SUMITOMO METAL INDUSTRIES LTD OSAKA JP ; HAYASHI CHIHIRO ; KOJIMA MASAYASU

**Inventor(s):**(std)**:** KOJIMA MASAYASU ; HAYASHI CHIHIRO

**Inventor(s):** HAYASHI CHIHIRO TAKARAZUKA SHI HYOGO KEN JP ; CHIHIRO HAYASHI ; KOJIMA MASAYASU TAKARAZUKA SHI HYOGO KEN JP ; MASAYASU KOJIMA

**Agent(s):** PHILLIPS ORMONDE FITZPATRICK; OSLER HOSKIN AND HARCOURT LLP

**Designated states:** DE FR GB NL

**International class** (IPC 8–9)**:** B42D15/02 B42D15/10 G06K19/00 G06K19/06 G06K19/07 G06K19/077 H01L23/02 H01L23/04 H05K5/04 H05K7/00 (Advanced/Invention); B42D15/02 B42D15/10 G06K19/00 G06K19/07 G06K19/077 H01L23/02 H05K7/00 (Core/Invention)

**International class** (IPC 1–7)**:** B42D15/02 B42D15/10 B65D73/02 G06K19/00 G06K19/06 G06K19/07 G06K19/077 H01L23/02 H01L23/04 H05K5/04 H05K7/00

**CPC:** Y10T29/49002 Y10T29/49126 G06K19/07728 G06K19/077

**European class:** G06K19/077 G06K19/077E5

**US class:** 206/328 206/329 220/75 235/1.00D 235/1D 29/592.1 29/830

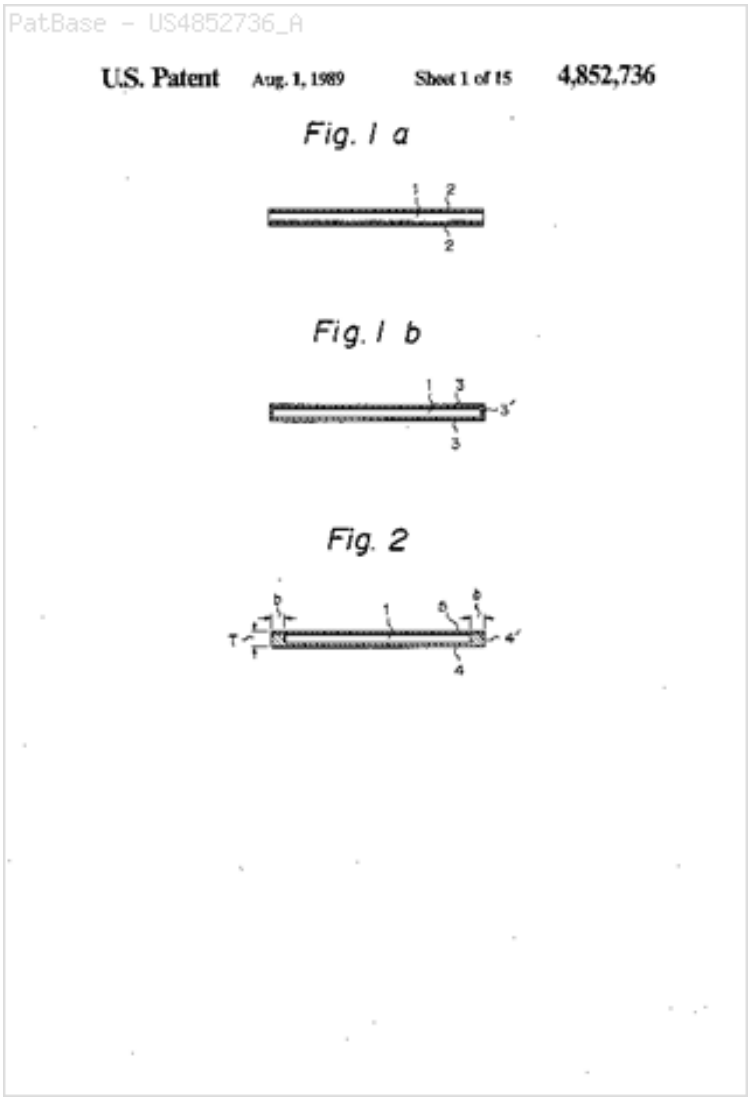
Classification Explorer

**Cited documents:** US4758689 A, US4632250 A, US4615441 A, US3349481 A, JP60150654, GB2178874 A1, EP0233649 A2,

**Forward Citations:** USRE36208, USD696255, US9329420, US9274373, US9104066, US8629953, US8558962, US8020423, US7911774, US7261133, US7163152, US6875631, US6625419, US5786559, US5371349, US5107073, US2015116629, US2012069500, US2011187958, US2011058117, US2009276990, US2009268120, US2009004408,

US2008316685, US2003115748, KR101133814, JP5097066, JP2007059888, GB2255346, EP2974809, EP2756894, EP0990400, EP0990400, EP0766189, EP0756444, EP0756444, DE9113601, DE4224103, DE10353648, CN104570413,

**Abstract:**
Source: US4852736A A metal case for housing electronic parts including an IC and a manufacturing method therefor are disclosed. The case comprises a shallow vessel having a wall on its periphery which is formed from metal sheet having the same thickness as the bottom of said depression and a rectangular metal ring which has a contour such that it can fit into the wall of said shallow vessel, said rectangular metal ring being fit into said shallow vessel and connected thereto so as to form a single body.



0) US2009039094A – INVENTIONS RELATING TO DRINKING VESSELS

**58) Family number: 35573357** (US2009039094A) © PatBase

**Title:** INVENTIONS RELATING TO DRINKING VESSELS

**Priority:** AU20060900686 20060213 AU20070215379 20070213 WO2007AU00151 20070213

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| AU2007215379 AA | 20070823 | AU20070215379 | 20070213 |
| AU2007215379 BB | 20130711 | AU20070215379 | 20070213 |
| CA2642285 AA | 20080813 | CA20072642285 | 20070213 |
| CN101420890 A | 20090429 | CN200780013242 | 20070213 |
| EP1983869 A1 | 20081029 | EP20070701482 | 20070213 |
| EP1983869 A4 | 20111207 | EP20070701482 | 20070213 |
| US2009039094 AA | 20090212 | US20070279025 | 20070213 |
| US8302804 BB | 20121106 | US20070279025 | 20070213 |
| WO07092995 A1 | 20070823 | WO2007AU00151 | 20070213 |

**Probable Assignee:** JACKEL INT LTD

**Assignee(s):(std):** BELLETT LEASING PTY LTD ; JACKEL HOLDINGS VICTORIA PTY LTD ; SEDDON JON

**Assignee(s):** SANBROOK BRANDS PTY LTD ; JACKEL HOLDINGS VICTORIA PTY LTD TRUSTEE FOR JACKEL HB ACQUISITION TRUST AS ; JACKEL INT LTD ; PIPSAN HOLDINGS VICTORIA PTY LTD ; SANBROOK HOLDINGS VICTORIA PTY LTD ; JACKEL HOLDINGS VICTORIA PTY LTD TRUSTEE FOR JACKE ; JACKEL HOLDINGS VICTORIA PTY LTD TRUSTEE FOR JACKEL HB ACQUISION TRUST AS

**Inventor(s):(std):** JON SEDDON ; SEDDON JON

**Agent(s):** FREEHILLS PATENT AND TRADE MARK ATTORNEYS; CHRYSILIOU IP; C BRIAN BARLOW AND ASSOCIATES; RIDOUT AND MAYBEE LLP; MOUNTENEY SIMON JAMES; MERCHANT AND GOULD PC; HUSCH BLACKWELL LLP

**Designated states:** AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

**International class (IPC 8–9):** A47G19/22 B65D47/06 B65D51/16 (Advanced/Invention); A47G19/22 (Core/Invention)

**CPC:** A47G19/2272 F16K15/147

**European class:** A47G19/22B12G F16K15/14H3

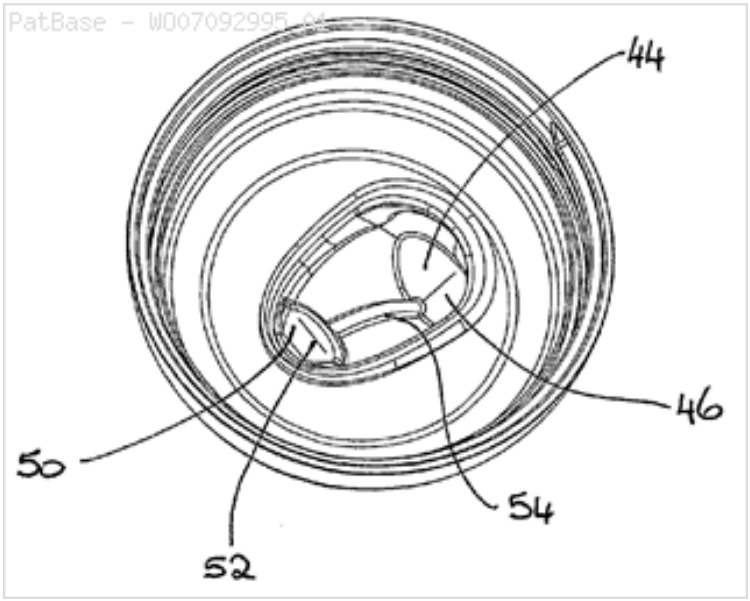
**US class:** 220/203.01 220/203.11 220/662 220/669 220/705 220/709 220/713 220/713P 220/714

Classification Explorer

**Cited documents:** WO05021387 A2, WO02098756 A2, WO0049922 A1, USD611301 S1, USD365499 S1, US7556172 BB, US7533783 BB, US7350666 BB, US6994225 BB, US6793075 BA, US6325236 BA, US4245752 A, US2006151499 AA, US2005045647 AA, US2003209555 AA, US2002158075 AA, GB2414470 A1, GB2401858 A1, EP1530935 A1,

**Forward Citations:** USD699857, USD681834, US9295350, US8770450, US2011095059, GB2491620, GB2491620,

**Abstract:**
Source: US2009039094A A lid (18) for a drinking container (14) includes an engagement means (26) for removably securing the lid (18) to the drinking container (14). The lid (18) is formed as a one piece unit and has a deformable spout (20) with a liquid outlet (46). The one piece lid is further provided with an air inlet (22) for the ingress of air into the container (14). Defamation of the spout (20) effects opening of the liquid outlet (46) and the air inlet (22). The spout (20) may be disposed in a forward position on the lid (18). The container wall may lean in the forwards direction when the container is seated on its base (16) on a level surface.



0) US3610133A – APPARATUS FOR COOKING CHICKEN

**59) Family number: 17916773** (US3610133A) © PatBase

**Title:** APPARATUS FOR COOKING CHICKEN

**Priority:** US19690824430 19690514 US19700024517 19700401 US19720272180 19720717

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| AU197014807 A1 | 19711118 | AU19700014807 | 19700508 |
| BE750352 A1 | 19701016 | BE19700750352 | 19700513 |
| CA918943 A1 | 19730116 | CA19700082553 | 19700512 |
| CA973754 A1 | 19750902 | CA19710105723 | 19710218 |
| DE2022337 A1 | 19701119 | DE19702022337 | 19700506 |
| DE7017113 U | 19720518 | DE19700017113U | 19700506 |
| FR2042635 A1 | 19710212 | FR19700017483 | 19700513 |
| GB1271161 A | 19720419 | GB19700023099 | 19700513 |
| GB1271162 A | 19720419 | GB19710030748 | 19700513 |
| IT1032010 A | 19790530 | IT19710049124 | 19710317 |
| IT983069 A | 19741031 | IT19700050651 | 19700513 |
| JP51018508 B4 | 19760610 | JP19700041285 | 19700514 |
| NL7007027 A | 19701117 | NL19700007027 | 19700514 |
| US3610133 A | 19711005 | US19690824430 | 19690514 |
| US3845702 A | 19741105 | US19720272180 | 19720717 |

**Probable Assignee:** MIES PRODUCTS INC

**Assignee(s):(std):** MIES FILTER PROD INC ; MIES FILTER PRODUCTS INC ; NIES FILTER PRODUCTS INC

**Assignee(s):** MIES FILTER PRODUCTS INC 708 710 BARRETT AVENUE LOUISVILLE KENTUCKY 40204 E U A ; WINSTON L SHELTON ; MIES PRODUCTS INC ; MIES FILTER PRODUCTS INC 708 710 BARRETT AVENUE LO ; MIES FILTER PROD INC US ; MIES FILTER PRODUCTS ; CARL P MIES JR ; MIES CARL P

**Inventor(s):(std):** L SHELTON WINSTON ; MIES C ; MIES C P ; MIES CARL P ; MIES CARL P JR ; P MIES CARL ; SHELTON W L ; SHELTON WINSTON L

**Inventor(s):** W L SHELTON ; WINSTON L SHELTON ; WL SHELTON ; MIES C US ; C P MIES ; CARL P MIES ; CARL P MIES JR ; CP MIES

**International class (IPC 8–9):** A23L1/31 A23L1/315 A23L13/50 A47J27/08 A47J37/12 (Advanced/Invention); A23L1/31 A23L1/315 A47J27/08 A47J37/12 (Core/Invention); A22C (Subclass/Invention)

**International class (IPC 1–7):** A22C A23L1/315 A47J A47J37/00 A47J37/12 E05F

**CPC:** Y10S210/08 A47J27/0817 Y10T137/86397

**European class:** A47J27/08R

**US class:** 137/624.12 210/162 210/489 210/DIG.8 220/324 392/459 99/337 99/342 99/408 99/410 993/370

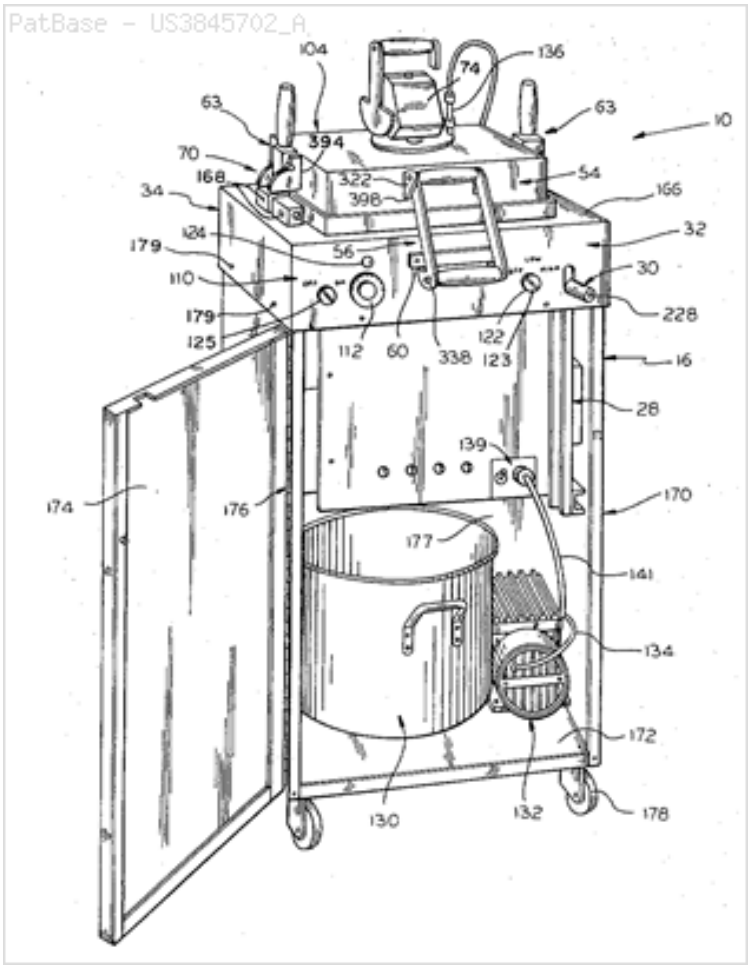
Classification Explorer

**Cited documents:** US3655411 A, US3363541 A, US3263596 A, US3245800 A, US3194662 A, US2914063 A, US2128738 A, US1707786 A,

**Forward Citations:** WO03032794, USRE33712, US8707857, US8354620, US8067717, US7856923, US7314001, US7227107, US6773237, US6711992, US6666131, US6451125, US6374835, US6328045, US6095163, US6044854, US5247878, US5002196, US4798939, US4721094, US4487691, US4325491, US4313371, US4273991, US4230574, US3977973, US3861286, US3853044, US3816703, US3793940, US3750560, US2015129509, US2011049123, US2009013879, US2009007799, US2008233257, US2006091137, US2006065582, US2004079238, US2003039557,

JP2015524345, GB2333440, GB2333440, FR2830737, FR2830736, FR2830734, EP1304063, EP1304062, EP1304062, CN104222182,

**Abstract:**
Source: US3610133A ABSTRACT OF THE DISCLOSURE This application discloses important aspects of the method disclosed in the copending application of Carl P. Mies, Jr., Ser. No. 24,517, filed Apr. 1, 1970, and assigned to the assignee of the instant application.



0) US2012258527A – BIOREACTOR

**60) Family number: 46840504** (US2012258527A) © PatBase

**Title:** BIOREACTOR

**Priority:** AU20090901008 20090309 WO2010AU00261 20100309 AU20100223843 20100309

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| AU2010223843 AA | 20100916 | AU20100223843 | 20100309 |
| EP2414502 A1 | 20120208 | EP20100750232 | 20100309 |
| US2012258527 AA | 20121011 | US20100381510 | 20100309 |
| WO10102329 A1 | 20100916 | WO2010AU00261 | 20100309 |

**Probable Assignee:** WRIGHT IAN

**Assignee(s):**(std)**:** WRIGHT IAN ; WRIGHT IAN MALCOLM

**Assignee(s):** GREENCELL LTD

**Inventor(s):**(std)**:** WRIGHT IAN MALCOLM

**Agent(s):** CULLENS PATENT AND TRADE MARK ATTORNEYS; CULLENS PTY LTD; TETZNER MICHAEL

**Designated states:** AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

**International class (IPC 8–9):** C12M1/04 C12M1/42 (Advanced/Invention)

**CPC:** C12M21/02 C12M23/02 C12M23/22 C12M29/00 C12M29/06

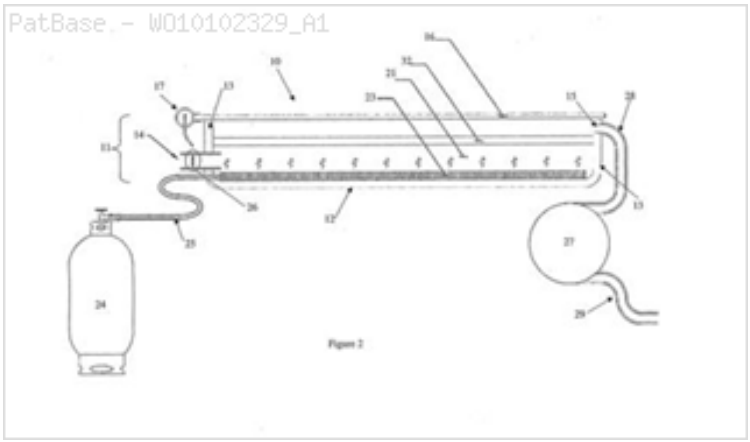
**European class:** C12M21/02 C12M23/02 C12M23/22 C12M29/00 C12M29/06

**US class:** 435/292.1

Classification Explorer

**Cited documents:** WO09116852 A1, WO09095688 A2, WO09002772 A2, US6370815 BA, US4324068 A, US2009130704 AA, TWI243205 B, EP1598659 A1, CN201406429 Y, CN1201826 A,

**Abstract:**
Source: US2012258527A A bioreactor including a substantially horizontal containing vessel having a base and at least one upstanding side–wall, at least one inlet located at a lower portion of the containing vessel, at least one outlet located at an upper portion of the containing vessel, an upper wall having a reflective material associated there with, at least one light source associated with the upper wall, and at least one light tube associated with each light source extending substantially the length of at least one sidewall of the vessel, the light tube provided adjacent an upper edge of the at least one sidewall and having a reflective lining to direct light from the light source across the upper wall.



0) US3646721A – WALL UNITS WITH INSULATION

**61) Family number: 24050923** (US3646721A) © PatBase

**Title:** WALL UNITS WITH INSULATION

**Priority:**

| | | |
|---|---|---|
| CH19700006368 19700428 | CH19750001630 19700428 | DE19671759635 19680522 |
| DE19671784816 19680921 | DE19681759635 19680522 | GB19690045498 19690916 |
| DE19691925789 19690531 | DE19691932202 19690625 | DE19691937086 19690722 |
| DE19691941401 19690814 | DE19691943042 19690823 | DE19691958499 19691121 |
| DE19681784816 19680921 | DE19691916384 19690329 | DE19691924313 19690513 |
| US19740493049 19740730 | GB19700021347 19700513 | GB19730003598 19700513 |
| GB19730003599 19700513 | GB19720023484 19690916 | US19700037068 19700513 |
| US19720231815 19720306 | US19690826958 19690522 | US19740444003 19740220 |

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| AT328688 B | 19760412 | AT19690004811 | 19690520 |
| AT340642 B | 19771227 | AT19700004087 | 19700506 |
| AT408770 A | 19770415 | AT19700004087 | 19700506 |
| AT481169 A | 19750615 | AT19690004811 | 19690520 |
| BE741759 A | 19700519 | | 19691117 |
| BR6912574 A0 | 19730308 | BR19690212574 | 19690919 |
| CA1006322 A1 | 19770308 | CA19700082683 | 19700513 |
| CA966270 A1 | 19750422 | CA19690052279 | 19690522 |
| CH504596 A | 19710315 | CH19690007750 | 19690521 |
| CH572137 A | 19760130 | CH19700006368 | 19700428 |
| CH592791 A | 19771115 | CH19750014985 | 19751119 |
| CH597454 A | 19780414 | CH19750012390 | 19750924 |
| CH601592 A | 19780714 | CH19750001630 | 19750211 |
| CH601593 A | 19780714 | CH19750012391 | 19750924 |
| CH603929 A | 19780831 | CH19770009729 | 19770809 |
| CH603930 A | 19780831 | CH19770009730 | 19770809 |
| DE1759635 A1 | 19711118 | DE19681759635 | 19680522 |
| DE1759635 B2 | 19790125 | DE19681759635 | 19680522 |
| DE1759635 C3 | 19790913 | DE19681759635 | 19680522 |
| DE1784816 A1 | 19720120 | DE19681784816 | 19680921 |
| DE1916384 A1 | 19701001 | DE19691916384 | 19690329 |
| DE1924313 A1 | 19701119 | DE19691924313 | 19690513 |
| DE1925789 A1 | 19701126 | DE19691925789 | 19690531 |
| DE1932202 A1 | 19710107 | DE19691932202 | 19690625 |
| DE1937086 A1 | 19710204 | DE19691937086 | 19690722 |
| DE1941401 A1 | 19710225 | DE19691941401 | 19690814 |
| DE1943042 A1 | 19710304 | DE19691943042 | 19690823 |
| DE1958499 A1 | 19710527 | DE19691958499 | 19691121 |
| ES371595 A1 | 19720801 | ES19690371595 | 19690917 |
| FR2009098 A1 | 19700130 | FR19690016577 | 19690521 |
| FR2050389 A1 | 19710402 | FR19700017362 | 19700513 |
| FR2050389 B1 | 19730525 | FR19700017362 | 19700513 |
| GB1218332 A | 19710106 | GB19690024038 | 19690519 |
| GB1321984 A | 19730704 | | 19690916 |
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| GB1321986 A | 19730704 | GB19720023484 | 19690916 |
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|---|---|---|---|
| GB1321988 A | 19730704 | | 19700513 |
| NL6914124 A | 19700324 | NL19690014124 | 19690917 |
| SE402141 B | 19780619 | SE19700006495 | 19700512 |
| SE402141 C | 19780928 | SE19700006495 | 19700512 |
| SE7414203 A | 19741112 | SE19740014203 | 19741112 |
| SE7414204 A | 19741112 | SE19740014204 | 19741112 |
| SE7414205 A | 19741112 | SE19740014205 | 19741112 |
| SE7414206 A | 19741112 | SE19740014206 | 19741112 |
| SE7414207 A | 19741112 | SE19740014207 | 19741112 |
| US3646721 A | 19720307 | US19690826958 | 19690522 |
| US3834096 A | 19740910 | US19720231815 | 19720306 |
| US3929186 A | 19751230 | US19740444003 | 19740220 |
| US3990202 A | 19761109 | US19740493049 | 19740730 |
| USRE29804 E | 19781017 | US19770843050 | 19771017 |
| USRE29924 E | 19790306 | US19770843080 | 19771017 |
| ZA6906521 A | 19710428 | ZA19690006521 | 19690915 |

**Probable Assignee:** BECKER DR OTTO ALFRED

**Assignee(s):**(std)**:** BECKER ; BECKER O ; BECKER OTTO ; BECKER OTTO ALFRED DR ; BECKER OTTO A ; BECKER OTTO ALFRED

**Assignee(s):** BECKER OTTO ALFRED DR 6600 SAARBRUECKEN ; OTTO ALFRED BECKER ; BECKER O A ; BECKER O DT ; BECKER DR OTTO ALFRED

**Inventor(s):**(std)**:** ALFRED BECKER DR OTTO ; ALFRED DR BECKER OTTO ; BECKER O ; BECKER OTTO A ; BECKER OTTO ALFRED ; BECKER OTTO ALFRED DR ; BECKER OTTO DR ; DR OTTO ALFRED BECKER ; DR OTTO BECKER ; DROTTO ALFRED BECKER ; OTTO ALFRED DR BECKER ; SOK

**Inventor(s):** OTTO ALFRED BECKER ; BECKER OTTO ALFRED DR 6600 SAARBRUECKEN ; BECKER O DT

**International class** (IPC 8–9)**:** B32B3/12 B32B3/26 B32B37/10 B32B7/00 E04B1/38 E04B1/61 E04B1/62 E04B1/70 E04B1/74 E04B1/76 E04B1/78 E04B1/80 E04B1/82 E04B1/90 E04B2/00 E04B2/72 E04B2/82 E04B2/88 E04B2/90 E04C2/288 E04C2/292 E04C2/296 E04C2/34 E04C2/36 E04C2/38 E04C2/52 E04F13/00 F16L59/00 F16L59/02 F16L59/06 F16S1/00 F24D5/10 F24F3/00 F24F3/044 F24F5/00 F24F7/04 F25D23/06 (Advanced/Invention); E04B1/74 E04B1/84 (Advanced/Non–invention); B32B3/12 B32B3/26 B32B37/10 B32B7/00 E04B1/38 E04B1/61 E04B1/62 E04B1/70 E04B1/74 E04B1/76 E04B1/78 E04B1/80 E04B1/82 E04B2/00 E04B2/72 E04B2/82 E04B2/88 E04B2/90 E04C2/26 E04C2/34 E04C2/38 E04C2/52 E04F13/00 F16L59/00 F16L59/02 F16L59/06 F16S1/00 F24D5/00 F24F3/044 F24F5/00 F24F7/04 F25D23/06 (Core/Invention); E04B1/74 E04B1/84 (Core/Non–invention); E04B (Subclass/Invention)

**International class** (IPC 1–7)**:** B32B3/12 B32B3/26 E04B1/38 E04B1/56 E04B1/60 E04B1/62 E04B1/74 E04B1/76 E04B1/78 E04B1/80 E04B1/82 E04B1/90 E04B2/00 E04B2/28 E04B2/42 E04B2/72 E04B2/88 E04C2/32 E04C2/36 E04C2/38 E04C2/46 E04C2/48 E04C2/52 E04F13/08 E04F17/04 E06B7/12 F16L59/00 F24F13/18 F24F3/00 F24F5/00 F24F7/04 F24F7/06 F24H9/08 G11C19/00

**CPC:** E04B1/74 E04B1/70 F24D5/10 F24F5/0089 F25D23/068 E04B9/001 E04B2/88 E04B2001/747 E04B2001/8423 E04B2001/8447 F24F3/044 E04B1/90 E04B1/7092 E04B1/76 E04B1/80 E04B1/803 E04B2/90 E04B2001/748 E04B2001/8428 E04B2001/8452 E04C2/34 E04C2/365 E04C2/52 F24F5/00 F24F5/0075 F24F7/04 Y02B30/92 Y02B80/12

**European class:** E04B1/70 E04B1/70V3 E04B1/74 E04B1/76 E04B1/80 E04B1/80B E04B1/90 E04B2/88 E04B2/90 E04B9/00A E04C2/34 E04C2/36B E04C2/46 E04C2/52 F24D5/10 F24F3/044 F24F5/00 F24F5/00K F24F5/00R F24F7/04 F25D23/06C3 P04B1/74M5 P04B1/74M6 P04B1/84P P04B1/84P2 P04B1/84P5B P04B1/84P6 Y02B30/92 Y02B80/12

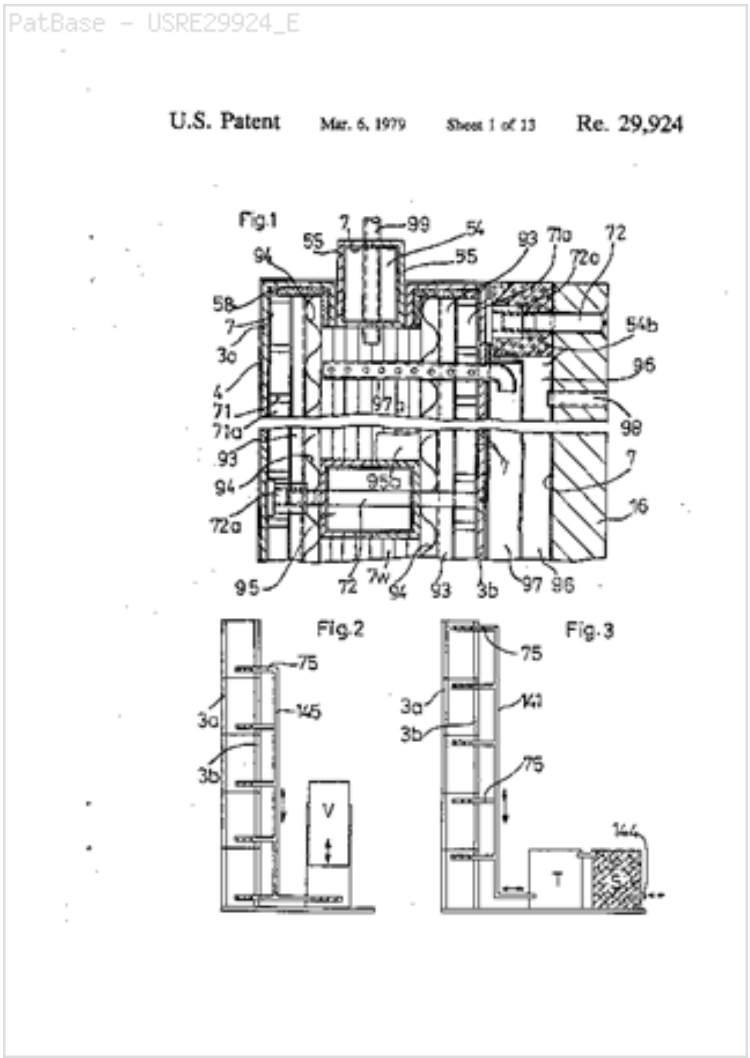
**US class:** 161/68 165/49 454/185 454/186 52/17.2 52/172 52/209 52/309 52/309.9 52/404.1 52/618 52/783.11 52/792.1 52/793.1 52/794.1 523/90 526/180

Classification Explorer

**Cited documents:** US3646721 A, US3604163 A, US3501367 A, US3490718 A, US3432859 A, US3412513 A, US3410336 A, US3356824 A, US3192575 A, US3167159 A, US3048375 A, US2662043 A, US2441571 A, US2406815 A, US2238022 A, US2122209 A, US2083622 A, US2062747 A, US2015808 A, US1852661 A, GB119614 A, FR1038204 A,

**Forward Citations:** WO9106722, WO8802051, WO8501308, WO8401795, WO8303111, WO16173585, WO15056222, WO15053687, WO11001000, WO09006343, WO07148316, WO06091100, WO06091100, WO06012417, WO05031230, WO03106777, USRE29851, USRE29804, USRE29517, US9605863, US9411127, US9353498, US8813443, US8528284, US8468773, US8316597, US8074409, US8001736, US7530204, US7410104, US7222801, US7086857, US7024832, US6976337, US6209269, US5994640, US5640824, US5522194, US5449542, US5390466, US5353564, US5306942, US4741391, US4741276, US4580487, US4432174, US4421203, US4417428, US4372089, US4333282, US4282280, US4201903, US4166345, US4143703, US4142338, US4141183, US4130972, US4090340, US4071992, US3994105, US3990202, US3917471, US3909143, US3868297, US3834096, US3811239, US3803784, US2017070184, US2015168673, US2015129163, US2015004384, US2014352915, US2014182831, US2012021242, US2010287863, US2010287862, US2010287861, US2010198414, US2009260296, US2009001185, US2007094964, US2007084139, US2006150567, US2006019210, US2005279343, US2005260530, US2004256479, US2003126814, US2003009965, US2002088184, NL1034444, NL1034056, NL1028388, ITRN20080058, GB2464483, GB2336381, GB2336381, GB2225356, GB2191519, GB2191519, GB2190113, GB2181469, GB2172024, GB2137255, FR2926097, FR2543191, FR2528472, FR2524039, FR2426216, FR2309785, ES2378859, ES2370304, EP2878741, EP2784367, EP2784367, EP2778308, EP2388531, EP1316652, EP0479308, EP0363343, EP0276787, EP0247216, EP0236704, EP0047494, DE3042109, DE2734348, DE2716362, DE2646085, DE2601108, DE102004014248, CN105256945, CN103899036, CN103899036, CN103526857, CN103276820, CN103276818, CN103233532, CN103233532, BE1002263, AT515050, AT515050,

**Abstract:**
Source: US3646721A A wall unit comprising panels lying at opposite faces of said unit, a seal arranged between the margins of said panels, and an insulation occupying the cavity between said panels, wherein the improvement comprises at least one insulating group extending parallel to said panels and comprising two foils capable of reflecting thermal radiation and chambers lying between said foils, the walls of which consist of insulating material.



0) US4103358A – FLUID MIXING AND DISPENSING SYSTEM

**62) Family number: 24050124** (US4103358A) © PatBase

**Title:** FLUID MIXING AND DISPENSING SYSTEM

**Priority:** CA19760260403 19760902 CA19800347764 19800317 CA19810369573 19810128 CA19810375033 19810408 CA19810386844 19810928 US19750609957 19750903 US19770849127 19771107 US19790010812 19790209 US19780896556 19780414 US19770849524 19771107

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| CA1102163 A1 | 19810602 | CA19800347764 | 19800317 |
| CA1102163 A2 | 19810602 | CA19800347764 | 19800317 |
| CA1106218 A1 | 19810804 | CA19760260403 | 19760902 |
| CA1124563 A1 | 19820601 | CA19810369573 | 19810128 |
| CA1124563 A2 | 19820601 | CA19810369573 | 19810128 |
| CA1126563 A1 | 19820629 | CA19810375033 | 19810408 |
| CA1126563 A2 | 19820629 | CA19810375033 | 19810408 |
| CA1166183 A1 | 19840424 | CA19810386844 | 19810928 |
| CA1166183 A2 | 19840424 | CA19810386844 | 19810928 |
| US4103358 A | 19780725 | US19750609957 | 19750903 |
| US4197942 A | 19800415 | US19770849524 | 19771107 |
| US4197942 B1 | 19840904 | US19770849524 | 19771107 |
| US4217054 A | 19800812 | US19780896556 | 19780414 |
| US4217054 B1 | 19840612 | US19780896556 | 19780414 |
| US4227818 A | 19801014 | US19770849127 | 19771107 |
| USRE30610 E | 19810512 | US19790010812 | 19790209 |
| USRE30610 F1 | 19840605 | US19790010812 | 19790209 |

**Probable Assignee:** PICKER CORP

**Assignee(s):**(std)**:** PICKER CORP

**Assignee(s):** DOUGLAS DYNAMICS LLC ; GACKI LEONARD W

**Inventor(s):**(std)**:** DALY ROBERT E ; GACKI LEONARD W ; ROBERT E DALY ; LEONARD W GACKI

**Agent(s):** RIDOUT AND MAYBEE LLP

**International class** (IPC 8–9)**:** B01F13/10 B01F15/02 B01F15/04 G03B27/00 G03C5/16 G03D3/04 G03D3/06 G03D3/16 (Advanced/Invention); B01F5/00 (Advanced/Non–invention); B01F13/00 B01F15/02 B01F15/04 G03B27/00 G03D3/02 G03D3/06 G03D3/16 (Core/Invention); B01F5/00 (Core/Non–invention)

**International class** (IPC 1–7)**:** B01F13/04 B01F15/02 B01F15/04 B65D25/08 G03B27/00 G03C5/16 G03D3/04 G03D3/16

**CPC:** B01F15/0201 Y10T137/2536 B01F15/00155 B01F13/1055 B01F15/0205 B01F15/0212 B01F15/026 B01F15/0454 B01F2005/002 B01F2215/0093 G03D3/06

**European class:** B01F13/10G B01F15/00K1D B01F15/02B B01F15/02B40U B01F15/02B6 B01F15/02B6N B01F15/04H5 G03D3/06 L01F215/00A116 L01F5/00A8

**US class:** 137/101.27 141/94 206/219 206/427 222/23 222/83 222/86 366/142 366/150 366/152.2 366/152.6 366/153 366/153.1 366/162.1 366/165.4 366/167.1 366/177.1 396/625

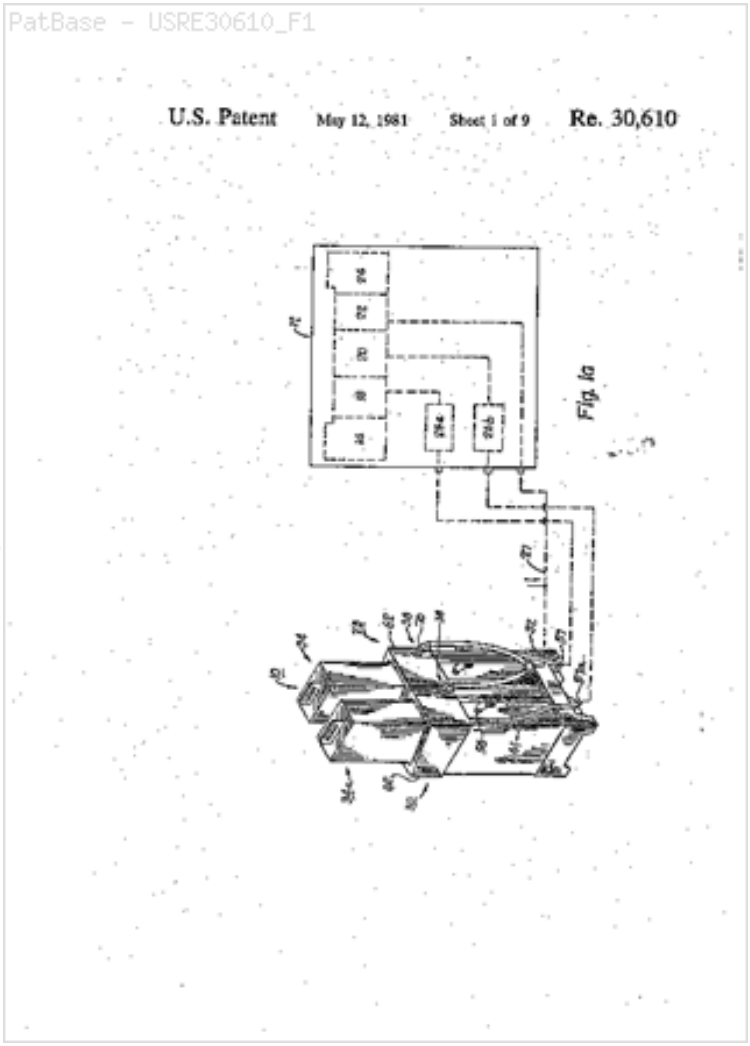
Classification Explorer

**Cited documents:** US689799 A, US623307 A, US4002267 A, US3794301 A, US3785412 A, US3767085 A, US3756471 A, US3705598 A, US3638833 A, US3613956 A, US3412902 A, US3367353 A, US3345997 A, US3326531 A, US3243163 A, US3139343 A, US3133726 A, US3131831 A, US2954898 A, US2950814 A, US2946574 A, US2939381 A, US2907495 A, US2899106 A, US2879811 A, US2774393 A, US2711268 A, US2278723 A,

US2024208 A, US1925466 A, US1657782 A,

**Forward Citations:** WO9318436, WO8303585, WO0209860, WO0178804, WO0037127, USD590658, USD582458, USD541174, USD507183, US9073017, US8261780, US7607592, US7048898, US7028719, US6951276, US6773174, US6645708, US6588927, US6527758, US6520693, US6481884, US6468722, US6355161, US6271043, US6137965, US6058954, US5941416, US5797681, US5788099, US5752124, US5705066, US5697702, US5694991, US5694635, US5690821, US5688046, US5614979, US5585550, US5581322, US5576795, US5570154, US5547645, US5488447, US5416551, US5235372, US5184164, US5151731, US5017951, US4967221, US4941519, US4941131, US4814809, US4801047, US4795059, US4712740, US4682737, US4676287, US4634252, US4575007, US4570856, US4558823, US4488582, US4458733, US4432755, US4381841, US4321939, US4312595, US4271965, US2015361775, US2015202580, US2012314530, US2012279912, US2010024915, US2005167298, US2002136087, JP2002337917, GB2147819, FR2556854, FR2545001, EP1457219, EP0774294, EP0774292, EP0769718, EP0741326, EP0660179, EP0424820, EP0271610, EP0204372, EP0204372, EP0005374, DE3508089, AU759206,

**Abstract:**
Source: US4103358A A fluid mixing system and method is disclosed for automatically mixing precise concentrations of photographic processing chemistry to be used in an X–ray film processor. The system produces a fresh batch of mixed solution whenever a previous batch has been reduced to a predetermined minimum volume. A pair of substantially identically constructed mixing units are provided to produce both developer and fixer solutions for film processing. Each unit has: a chemical supply structure for supplying chemicals from containerized supplied; a storage and mixing tank structure which underlies the chemical supply structure and defines a reservoir for mixing the chemistry with water; a water input valve for selectively introducing water under pressure into the tank structure; control apparatus for conditionally controlling operation of the water valve; and a chemical release assembly which is coupled to and actuated by the water valve. The chemical release assembly is operated by the pressure of the water as the water is admitted through the water valve. Operation of the release assembly causes piercing of the containers, allowing the chemistry to drain into the reservoir. The pressurized water creates a swirl for agitating and thoroughly mixing the chemistry and the water.



0) US4164174A – METHOD OF PREPARING FOODSTUFFS BY MEANS OF BOIL...

**63) Family number: 7500288** (US4164174A) © PatBase

**Title:** Method of preparing foodstuffs by means of boiling or steaming and means for performing the method

**Priority:** CH19750012688 19750930 SE19750012688 19751112

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| AT361651 B | 19810325 | AT19760008331 | 19761110 |
| AT833176 A | 19800815 | AT19760008331 | 19761110 |
| AU197619468 A1 | 19780518 | AU19760019468 | 19761110 |
| AU512951 B2 | 19801106 | AU19760019468 | 19761110 |
| BE848295 A1 | 19770301 | BE19760172321 | 19761112 |
| BR7607547 A | 19770927 | BR19760007547 | 19761111 |
| CA1065632 A1 | 19791106 | CA19760265025 | 19761105 |
| CH628510 A | 19820315 | CH19760014253 | 19761112 |
| DE2650544 A1 | 19770526 | DE19762650544 | 19761104 |
| DK508176 A | 19770513 | DK19760005081 | 19761111 |
| FI763255 A | 19770513 | FI19760003255 | 19761112 |
| FR2331311 A1 | 19770610 | FR19760034096 | 19761112 |
| FR2331311 B1 | 19821015 | FR19760034096 | 19761112 |
| GB1576814 A | 19801015 | GB19760047068 | 19761111 |
| GB1576815 A | 19801015 | GB19790018220 | 19761111 |
| IT1123070 A | 19860430 | IT19760029169 | 19761109 |
| JP52087253 A2 | 19770720 | JP19760134725 | 19761111 |
| NL7612371 A | 19770516 | NL19760012371 | 19761108 |
| NO763827 A | 19770513 | NO19760003827 | 19761110 |
| SE7512688 A | 19770513 | SE19750012688 | 19751112 |
| SE7512688 L | 19770513 | SE19750012688 | 19751112 |
| US4164174 A | 19790814 | US19760687707 | 19760519 |

**Probable Assignee:** HANS IVAR WALLSTEN TE LAUSANNE ZWITSERLAND

**Assignee(s):**(std)**:** WALLSTEIN H I ; WALLSTEN HANS IVAR ; WALLSTEN H

**Assignee(s):** WALLSTEN H I ; WALLSTEN HANS I ; WALLSTEN HI ; HANS IVAR WALLSTEN TE LAUSANNE ZWITSERLAND

**Inventor(s):**(std)**:** HANSU IBARU WARUSUTEN ; WALLSTEN H ; WALLSTEN H I ; WALLSTEN HANS I ; WALLSTEN HANS IVAR

**Inventor(s):** HI WALLSTEN ; IVAR WALLSTEN HANS ; H I WALLSTEN ; HANS IVAR WALLSTEN

**Agent(s):** E F WELLINGTON AND CO

**International class** (IPC 8–9)**:** A23L1/01 A23L5/10 A47J27/04 A47J36/02 A47J36/18 (Advanced/Invention); A23L1/01 (Advanced/Non–invention); A23L1/01 A47J27/04 A47J36/00 A47J36/02 (Core/Invention); A47J (Subclass/Invention)

**International class** (IPC 1–7)**:** A23L1/01 A47J27/04 A47J27/06 A47J27/082 A47J27/12 A47J27/66 A47J36/16 A47J37/12

**CPC:** A47J27/04 A47J36/022

**European class:** A47J27/04 A47J36/02B

**US class:** 220/23.87 220/573.4 99/415 99/418

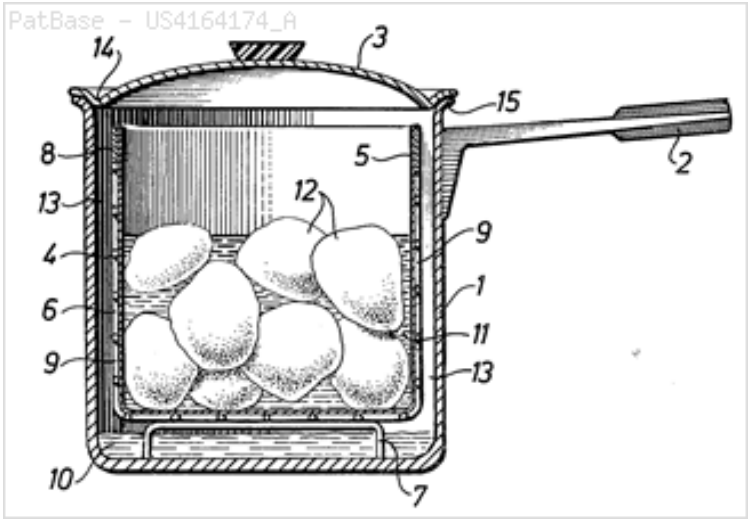
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**Cited documents:**

US4026435 A, US3946654 A, US3808963 A, US3659584 A, US3636860 A, US3531300 A, US3240610 A, US3130288 A, US2907659 A, US1955745 A, US1330868 A, FR2126537 A5, FR2067995 A5, FR1504466 A, CH483242 A,

**Forward Citations:** WO16073485, WO08025862, WO0015089, USD717162, USD680426, USD653495, US9505542, US9504349, US9220369, US9211030, US9132951, US9027825, US8887918, US8866056, US8850965, US8850964, US8707857, US8613249, US8540108, US8309151, US8302528, US8186265, US7112764, US7112764, US6892896, US6706303, US6698337, US6591550, US6401602, US6313446, US6263787, US6167799, US6055901, US5931333, US4848216, US4462308, US2014272059, US2011056957, US2009314784, US2009308878, US2009035433, US2007289983, US2007256571, US2007056970, US2004169042, US2003141308, GB2444140, GB2340823, GB2340823, GB2272149, GB2255002, GB2255002, FR2586922, FR2456672, ES2292358, EP0365014,

**Abstract:**
Source: US4164174A The method and apparatus for preparing foodstuffs by boiling and/or steaming including a thin walled and, hence, crushable insert having water–tight properties and mounted within a porous structure providing support for the thin walled insert, and holding the insert in a spaced fashion relative to the bottom and side walls of a cooking vessel, thereby forming the equivalent of a heat pipe structure in the hollow gap space between the insert support and the cooking vessel. For foodstuff preparation by boiling, water may be added to both the vessel interior and the insert interior, the foodstuffs being placed within the insert.



**64) Family number: 42113676** (US2010140381A) © PatBase

**Title:** PROCESS AND APPARATUS FOR TREATMENT OF A MATERIAL

**Priority:**
AT20070000244 20070215 AU20080215149 20080208 AU20100209997 20100806
EP20080706015 20080208 JP20090549744 20080208 EP20100005119 20080208
EP20100005120 20080208 BR2008PI07740 20080208 CN200880005034 20080208
WO2008AT00045 20080208 RU20090134337 20090914

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| AT504854 A1 | 20080815 | AT20070000244 | 20070215 |
| AT504854 B1 | 20120815 | AT20070000244 | 20070215 |
| AU2008215149 AA | 20080821 | AU20080215149 | 20080208 |
| AU2008215149 BB | 20120830 | AU20080215149 | 20080208 |
| AU2010209997 AA | 20100902 | AU20100209997 | 20100806 |
| AU2010209997 BB | 20120830 | AU20100209997 | 20100806 |
| BR122013024728 A2 | 20150714 | BR20131224728 | 20080208 |
| BR122013024728 B1 | 20160510 | BR20131224728 | 20080208 |
| BRPI0807740 A2 | 20140902 | BR2008PI07740 | 20080208 |
| CA2678246 AA | 20090813 | CA20082678246 | 20080208 |
| CA2678246 C | 20150331 | CA20082678246 | 20080208 |
| CN101610886 A | 20091223 | CN200880005034 | 20080208 |
| CN101869866 A | 20101027 | CN201010203007 | 20080208 |
| CN101869866 B | 20130306 | CN201010203007 | 20080208 |
| CN105269709 A | 20160127 | CN201510647471 | 20080208 |
| DE202008018151 U1 | 20120112 | DE200820018151U | 20080208 |
| DE502008007413 D1 | 20120802 | DE200850007413T | 20080208 |
| DE502008007474 D1 | 20120816 | DE200850007474T | 20080208 |
| DE502008007531 D1 | 20120816 | DE200850007531T | 20080208 |
| DK2117796 T3 | 20121001 | DK20080706015T | 20080208 |
| DK2218565 T3 | 20120917 | DK20080005119T | 20080208 |
| DK2221158 T3 | 20121001 | DK20080005120T | 20080208 |
| EP2117796 A1 | 20091118 | EP20080706015 | 20080208 |
| EP2117796 B1 | 20120620 | EP20080706015 | 20080208 |
| EP2218565 A1 | 20100818 | EP20100005119 | 20080208 |
| EP2218565 B1 | 20120606 | EP20100005119 | 20080208 |
| EP2221158 A1 | 20100825 | EP20100005120 | 20080208 |
| EP2221158 B1 | 20120620 | EP20100005120 | 20080208 |
| ES2389166 T3 | 20121023 | ES20100005119T | 20080208 |
| ES2389874 T3 | 20121102 | ES20100005120T | 20080208 |
| ES2389895 T3 | 20121102 | ES20080706015T | 20080208 |
| IN02913KN2009 A | 20100813 | IN2009KN02913 | 20090813 |
| JP2010517831 T2 | 20100527 | JP20090549744T | 20080208 |
| JP2011005862 A2 | 20110113 | JP20100157278 | 20100709 |
| KR101568655 B1 | 20151112 | KR20097019245 | 20080208 |
| KR101618348 B1 | 20160504 | KR20107020330 | 20080208 |
| KR20090121331 A | 20091125 | KR20097019245 | 20080208 |
| KR20100114128 A | 20101022 | KR20107020330 | 20080208 |
| KR20160005786 A | 20160115 | KR20157036335 | 20080208 |
| KR20160028485 A | 20160311 | KR20167004546 | 20080208 |

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|---|---|---|---|---|
| MX2009008406 A1 | 20090818 | MX20090008406 | 20080208 | |
| PL2218565 T3 | 20121130 | PL20100005119T | 20080208 | |
| PL2221158 T3 | 20121130 | PL20100005120T | 20080208 | |
| PT2117796 T | 20120920 | PT20080706015T | 20080208 | |
| PT2218565 T | 20120912 | PT20100005119T | 20080208 | |
| PT2221158 T | 20120803 | PT20100005120T | 20080208 | |
| RU2009134337 A | 20110320 | RU20090134337 | 20080208 | |
| RU2010130271 A | 20120127 | RU20100130271 | 20100719 | |
| RU2010130271 A | 20120127 | RU20100130271 | 20080208 | |
| RU2461459 C2 | 20120920 | RU20090134337 | 20080208 | |
| RU2492045 C2 | 20130910 | RU20100130271 | 20080208 | |
| SI2117796 T1 | 20120831 | SI20080030696T | 20080208 | |
| SI2218565 T1 | 20121030 | SI20080030697T | 20080208 | |
| SI2221158 T1 | 20121030 | SI20080030731T | 20080208 | |
| UA90641 C2 | 20100511 | UA20090009073 | 20080208 | |
| US2010140381 AA | 20100610 | US20080526755 | 20080208 | |
| US8616478 BB | 20131231 | US20080526755 | 20080208 | |
| WO08098274 A1 | 20080821 | WO2008AT00045 | 20080208 | |
| ZA200905078 A | 20100428 | ZA20090005078 | 20090721 | |

**Probable Assignee:** EREMA ENGINEERING RECYCLING MASCH U ANLAGEN GES MBH

**Assignee(s):**(std)**:** ANLAGEN GMBH ; EHREMA EHNDZHINIRING RISAJKLING MASHINEN U ANLAGEN GEZELL SHAFT M B KH ; EREMA ; EREMA ENG RECYCLING MASCH AND ANLAGEN GMBH ; PAULI PETER ; WEIGERSTORFER GEORG ; FEICHTINGER KLAUS ; EHREMA EHNDZHINIRING RISAJKLING MASHINEN UND ANLAGEN GEZELL SHAFT M B KH ; ANLAGEN GES M B H ; EREMA GMBH

**Assignee(s):** EREMA ENGINEERING RECYCLING MASCH U ANLAGENGESMBH ; ANLAGEN GES MBH ; ANLAGEN GESELLSCHAFT M B H ; EREMA ENGINEERING RECYCLING MASCH AND ANLAGEN GMBH ; EREMA ENGINEERING RECYCLING MASCH U ANLAGENGESELLSCHAFT MBH ; EREMA ENGINEERING RECYCLING MASCH U ANLAGEN GES MBHUNTERFELDSTRASSE 3FREINDORFA–4052ANSFELDENAT ; EREMA ENGINEERING RECYCLING MASCH ; EREMA ENGINEERING RECYCLING MASCH U ANLAGENGELLSCHAFT MBH ; EREMA ENGINEERING RECYCLING MASCHINEN ; EREMA ENGINEERING RECYCLING MASCHINEN UND ANLAGENGESELLSCHAFT M B H ; EREMA ENGINEERING RECYCLING MASCHINEN UND ANLAGENGELLSCHAFT M B H ; EREMA ENGINEERING RECYCLING MASCHINEN UND ANLAGENGES M B H ; EREMA ENGINEERING RECYCLING MASCHINEN UND ANLAGEN GES M B H ; EREMA ENGINEERING RECYCLING MASCHINEN UND ANLAGEN GESELLSCHAFT M B H ; EREMA ENGINEERING RECYCLING MASCHINEN AND ANLAGEN GMBH ; EREMA ENGINEERING RECYCLING MASCH U ANLAGEN GES MB ; EREMA ENGINEERING RECYCLING MASCH U ANLAGEN GES MBH ; EREMA ENGINEERING RECYCLING MASCH U ANLAGEN GES M B H ; EHREMA EHNDZHINIRING RISAJKLING MASHINEN U ANLAGEN GEZELL SHAFT MBKH ; EREMA ENGINEERING RECYCLING MASCH U ANLAGEN GMBH

**Inventor(s):**(std)**:** FEICHTINGER KLAUS ; FEICHTINGER KLAUS DIPL ING ; FEJKHTINGER KLAUS ; GEORG WEIGERSTORFER ; KLAUS FEICHTINGER ; PAULI PETER ; PETER PAULI ; VAJGERSTORFER GEORG ; WEIGERSTORFER GEORG

**Inventor(s):** WEIGERSTORFER GEORGAT ; PAULI PETERAT ; FEICHTINGER KLAUS DIPLING ; FEICHTINGER KLAUSAT

**Agent(s):** LORD AND CO; MARKS AND CLERK; MEISSNER BOLTE AND PARTNER GBR; WILDHACK AND JELLINEK; WILDHACK ANDREAS; SANZ–BERMELL SANZ–BERMELL ALEJANDRO; TOWNSEND AND TOWNSEND AND CREW LLP; KILPATRICK TOWNSEND AND STOCKTON LLP; WILDHACK HELMUT ET AL

**Designated states:** AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

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| **International class (IPC 8–9):** | B01F13/00 B01F13/10 B01F15/02 B01F7/16 B02C1/10 B02C13/28 B02C18/08 B02C18/12 B02C21/00 B02C23/00 B02C23/24 B02C23/26 B29B13/06 B29B13/10 B29B17/00 B29B17/04 B29B7/16 F26B3/06 (Advanced/Invention); B02C18/12 B02C23/26 B29B17/00 (Advanced/Non–invention); B01F13/00 B01F15/00 B01F7/00 B02C18/00 B02C18/06 B02C23/00 B02C23/18 B29B13/00 B29B17/00 B29B7/00 F26B3/02 (Core/Invention); B02C B29B (Subclass/Invention) |
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| **CPC:** | Y02W30/625 B02C18/086 B01F7/163 B01F13/1044 B01F15/0289 B01F2013/108 B02C18/12 B02C23/26 B29B7/16 B29B13/10 B29B17/0412 B29B2017/048 B29B17/00 |
| **European class:** | B01F13/10D2 B01F15/02C40J2 B01F7/16F2 B02C18/08P B02C18/12 B02C23/26 B29B13/10 B29B17/04D B29B7/16 L01F13/10T5A L29B17/04Z12 |
| **US class:** | 241/17 241/17P 241/186.5 241/19 241/19S 241/23 241/23S 241/24.28 241/24.280S 241/244 241/275 241/277 241/282.1 241/282.100S 241/47 241/47S 241/57 241/65 241/65S 241/98 241/98S |
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| **Cited documents:** | WO05087474 A1, WO0074912 A1, US6745960 BA, US6719454 BA, US4556175 A, US4394980 A, US2006093696 AA, KR20120104488, KR20060028383, KR20020089598, KR100255080 B1, JP4163004 A2, JP4163004, JP3581736 B2, JP2006525882 T2, DE9202161 U, DE4205073 A1, DE4200827 A1, DE3705343 A1, DE2609850 A1, DE2432494 A1, |
| **Forward Citations:** | WO15101542, WO13174473, WO11127507, WO11088488, WO11085419, WO11085418, WO11085417, WO10089174, US9566720, US9539741, US9296128, US9289919, US9289774, US9266272, US9266255, US9254603, US9221198, US9216522, US9211546, US8956892, US2014312151, US2014299700, US2014291427, US2014252148, US2014252147, US2014239104, US2014234462, US2013178002, US2013092768, US2012037739, US2010101454, TWI499455, TWI418410, TWI418409, TWI414407, RU2546153, KR101559016, JP5852714, JP2015016692, JP2013517160, JP2013517116, JP2013517115, JP2013517114, DE102012104375, CN103736564, CN103361123, CN102711970, CN102711970, CN102438737, AU2011206932, AU2011206903, AU2011206902, |

**Abstract:**
Source: US2010140381A The invention relates to a process and an apparatus for the treatment of a material in the form of fragments or particles which is moved and/or rotated, mixed, heated and, if appropriate, comminuted by at least one mixing element (12, 21) in a receiver or cutter–compactor (1), where, in the course of the process, undesired substances which impair the treatment of and/or further operations on the material are removed from the material by introducing a gas, in particular air or an inert gas, in a region below the level of the material located in the receiver (1) during its operation, or below the level of material of the mixing vortex which forms within the receiver (1), where the gas is forced to flow through at least a subregion of the material, and where the gas then saturated with, or with an increased concentration of, undesired substances is discharged from the receiver (1) in a region above the level of the material located in the receiver (1) during its operation or above the level of the material of the mixing vortex.

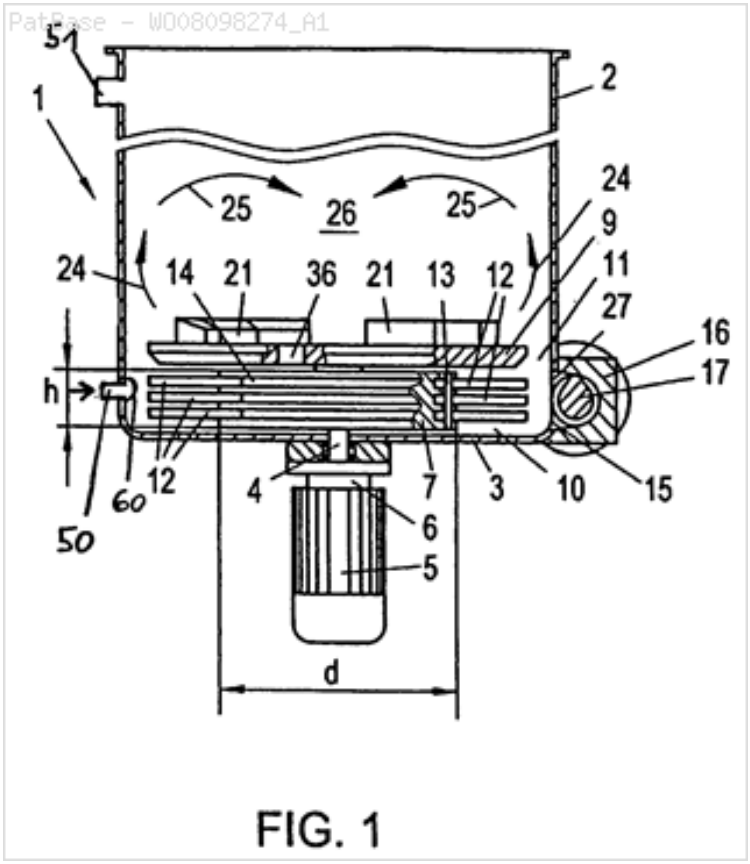



FIG. 1

**65) Family number: 20680783** (US5996882A) © PatBase

**Title:** Collapsible, foldable, stackable, and self–supporting container

**Priority:** US19970853773 19970509 US19970854246 19970509 WO1998US09216 19980506 US19970854247 19970509

**Family:**

| Publication number | Publication date | Application number | Application date |
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| AU737264 B2 | 20010816 | AU19980075653 | 19980506 |
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| EP0980334 B1 | 20020807 | EP19980923342 | 19980506 |
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| WO9850279 A2 | 19981112 | WO1998US09216 | 19980506 |
| WO9850279 A3 | 19990225 | WO1998US09216 | 19980506 |
| ZA9803861 A | 19981109 | ZA19980003861 | 19980507 |

**Probable Assignee:** PROCTER AND GAMBLE CO

**Assignee(s):**(std)**:** PROCTER AND GAMBLE ; PROCTER AND GAMBLE CO ; THE PROCTER AND GAMBLE COMPANY

**Assignee(s):** RANDALL CATHERINE JEAN ; GAMBLE CO ; MEYER ERIC WALTER ; PROCTER AND ; THE PROCTER AND GAMBLE CO ; THE PROCTER AND GAMBLE COMPANY CINCINNATI

**Inventor(s):**(std)**:** CATHERINE JEAN RANDALL ; ERIC W MEYER ; ERIC WALTER MEYER ; CATHERINE J RANDALL ; JEAN RANDALL CATHERINE ; MEYER ERIC W ; MEYER ERIC WALTER ; MEYER WALTER ; RANDALL CATHERINE J ; RANDALL CATHERINE JEAN ; RANDALL JEAN

**Inventor(s):** Randall ; Meyer ; Catherine Jean ; Eric Water

**Agent(s):** WATERMARK PATENT AND TRADE MARKS ATTORNEYS; WATERMARK INTELLECTUAL PROPERTY PTY LTD; MBM INTELLECTUAL PROPERTY LAW LLP; HARNECKER; CARLOS REINALDO OLARTE GARCIA

**Designated states:** AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CU CY CZ DE DK EE ES FI FR GA GB GE GH GM GN GR GW HU ID IE IL IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MC MD MG MK ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT UA UG UZ VN YU ZW

**International class (IPC 8–9):** B65D30/00 B65D30/16 B65D30/20 B65D33/16 B65D33/18 B65D33/24 B65D65/00 B65D77/20 B65D77/30 (Advanced/Invention);
B65D21/08 B65D33/18 (Advanced/Non–invention);
B65D30/00 B65D33/16 B65D33/18 B65D65/00 B65D77/10 B65D77/22 (Core/Invention)

**International class (IPC 1–7):** B31B B65D B65D21/08 B65D30/00 B65D30/20 B65D33/02 B65D33/16 B65D33/18 B65D33/24 B65D5/36 B65D65/00 B65D77/20 B65D77/30

**CPC:** B65D33/1658 B65D77/20

**European class:** B65D33/16F B65D77/20

**US class:** 150/120 220/359.2 229/117.05 229/125.13 383/104 383/120 383/33 383/34 383/93

Classification Explorer

**Cited documents:** US605343 A, US584555 A, US5662758 A, US5609899 A, US5605594 A, US5575747 A, US5547284 A, US5524990 A, US5507579 A, US5379897 A, US5364189 A, US5314252 A, US5242057 A, US5236576 A, US5201164 A, US5195829 A, US5145091 A, US5076436 A, US5061500 A, US5050737 A, US5048718 A, US5044774 A, US4979613 A, US4930644 A, US4898477 A, US4892220 A, US4863064 A, US4848930 A, US4833862 A, US4832507 A, US4808421 A, US4790436 A, US4753351 A, US4736450 A, US4735317 A, US4681240 A, US4571337 A, US4540091 A, US4487318 A, US4458810 A, US4420080 A, US4411374 A, US4258538 A, US4185754 A, US4183458 A, US4134322 A, US4131195 A, US3970241 A, US3819043 A, US3806984 A, US3784055 A, US3756300 A, US3738565 A, US3682372 A, US3462067 A, US3326258 A, US3319684 A, US3306492 A, US3205530 A, US3197062 A, US2986477 A, US2951765 A, US2893295 A, US2647550 A, US2573309 A, US2457422 A, JP252402, JP1252402 A2, GB1575657 A, FR2184972 A1, FR1047064 A, AU1546776 A1,

**Forward Citations:** WO10059932, WO10059932, WO09070491, WO08038008, WO08038008, WO07130889, WO06047281, WO02056674, WO0151366, WO0151365, WO0151363, WO0151363, USD639004, USD639003, USD639002, USD619905, USD599656, USD596936, USD546520, USD545216, US9499291, US9463915, US9199761, US9102423, US8833592, US8770469, US8739501, US8695793, US8690017, US8678650, US8647587, US8635838, US8596448, US8567157, US8387793, US8220651, US8215089, US8146773, US8146763, US8142076, US8142075, US8127519, US8066136, US8061900, US8033421, US8033411, US7900814, US7854370, US7699212, US7654402, US7631799, US7416337, US7178687, US7017776, US7011224, US7001475, US6923516, US6920993, US6899460, US6892897, US6612741, US6554810, US6533456, US6453845, US6345911, US6334562, US6325239, US6315151, US6296388, US6254273, US6116501, US6092687, US2015016753, US2013105352, US2011210031, US2011210019, US2011100996, US2010263328, US2010237070, US2010230407, US2010127061, US2010111447, US2010006712, US2009196532, US2009114705, US2009090736, US2008247679, US2008181538, US2008019618, US2008011758, US2007007289, US2007003171, US2006193541, US2006191985, US2006191929, US2006086627, US2006072855, US2006013512, US2005276523, US2005157957, US2005139236, US2005127074, US2005127073, US2005029911, US2005029261, US2005029260, US2005023312, US2005011906, US2004252921, US2003082345, US2003082320, US2003080005, US2003077007, NL1024581, KR100887205, JP2009096554, GB2442221, EP1812301, EP1246757, EP1004514, DE10328476, CN105555941, CN102858647, CN102424193,

**Abstract:**
Source: US5996882A The present invention provides a collapsible, foldable, stackable, and self−restorable container comprising semi−enclosed container body having two opposed side walls, two opposed end walls between the side walls, and a bottom panel enclosing one end of the container body. Each of the side walls includes a gusset extending in a direction substantially parallel to the bottom panel. The container further includes a lid attached to the container body for selectively converting the semi−enclosed container to a closed container. Finally, the container includes a closure means for sealing the lid to the container body. In accordance with the present invention the side walls and end walls are inwardly foldable toward one another, such that the container is collapsible in a direction normal to the lid and bottom panel while being substantially self−supporting while the side walls and end walls are in their unfolded orientation. The present invention also provides a storage container having an opening and a closure means for sealing the opening to convert the semi−enclosed container to a closed container. The closure means comprises a strip of material forming at least a portion of the periphery of the opening having a first side facing inwardly toward the opening and a second side facing outwardly of the opening. The first side exhibits an adhesion peel force after activation by a user which is greater than an adhesion peel force exhibited prior to activation by a user. Accordingly, the storage containers of the present invention combine the desirable qualities of both flexible bags and storage containers and minimize the less desirable qualities of both approaches by providing improved sealability, being self−supporting in an open condition for filling, storing easily by folding into a compact form, and being unitarily constructed from inexpensive materials to promote disposability and obviate the need for separate closure devices.

PatBase - WO9850279_A2



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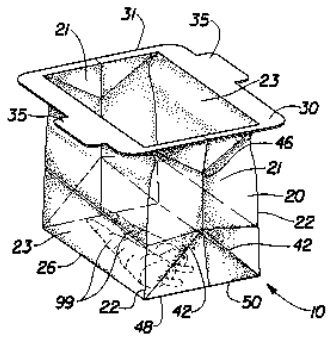



Fig. 1

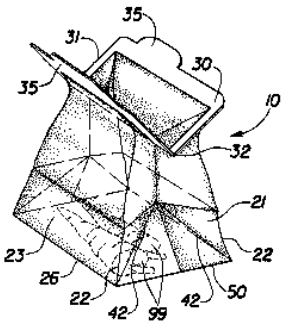



Fig. 2

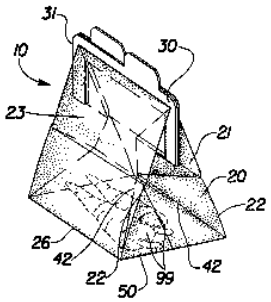



Fig. 3

0) US5893485A – DISPENSING MECHANISM

**66) Family number: 11261812** (US5893485A) © PatBase

**Title:** Dispensing mechanism

**Priority:** EP19940902883 19931216 EP19970109005 19931216 GB19920026307 19921217 EP20020007632 19931216 GB19930005018 19930311 WO1993GB02572 19931216

**Family:**

| Publication number | Publication date | Application number | Application date |
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| WO9413154 A2 | 19940623 | WO1993GB02572 | 19931216 | |
| WO9413154 A3 | 19940804 | WO1993GB02572 | 19931216 | |

**Probable Assignee:** MCGILL TECHNOLOGY LTD

**Assignee(s):(std):** UNICE INT LTD ; UNICE INTERNAT LTD ; UNICE INTERNATIONAL LTD ; FIVE BEARS LIMITED ; MCGILL GARY SHANE ; MCGILL TECH LTD ; UNILEVER PLC ; UNILEVER NV

**Assignee(s):** UNICE INTERNATIONAL LIMITED ; EUNICE INT LTD ; MCGILL TECHNOLOGY LIMITED ; MCGILL TECHNOLOGY LTD ; UNILEVER N V ; UNICE INT ; MCGILL TECHNOLOGY LTD ADDINGTON ; UNILEVER N V ROTTERDAM ; UNICE INTERNATIONAL LTD COVENTRY GB ; UNICE JAPAN LTD

**Inventor(s):(std):** MCGILL GARY SHANE ; SHANE MCGILL GARY

**Inventor(s):** GARY SHANE MCGILL ; MCGILL GARY SHANE ROCHESTER KENT ME1 1NP GB

**Agent(s):** GRIFFITH HACK; BERESKIN AND PARR

**Designated states:** AT AU BE BR CA CH CZ DE DK ES FI FR GB GR HU IE IT JP KR LI LU MC NL NO NZ PL PT RU SE SK US

**International class (IPC 8–9):** A23G3/02 A23G9/28 A23G9/32 A23G9/50 A23L1/00 B65B69/00 B65D35/10 B65D81/34 B65D83/00 B65D85/60 B65D85/78 (Advanced/Invention);
A23G9/28 A23L1/00 B65D81/34 (Advanced/Non–invention);
A23G3/02 A23G9/04 A23G9/32 A23G9/44 A23L1/00 B65B69/00 B65D83/00 B65D85/60 B65D85/72 (Core/Invention);
B65D81/34 (Core/Non–invention)

**International class (IPC 1–7):** A23G3/02 A23G9/02 A23G9/28 A23L1/00 B65B69/00 B65D1/32 B65D35/10 B65D35/28 B65D35/30 B65D35/50 B65D83/00 B65D85/60 B65D85/78

**CPC:** A23G3/02 A23G3/0252 A23G3/0257 A23G9/28 A23G9/283 A23G9/503 B65D81/3453 B65D83/0072 B65D83/0094 B65D85/78

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**US class:** 100/125 141/114 141/270 141/284 141/82 222/103 222/105 222/146.6 222/95 426/516

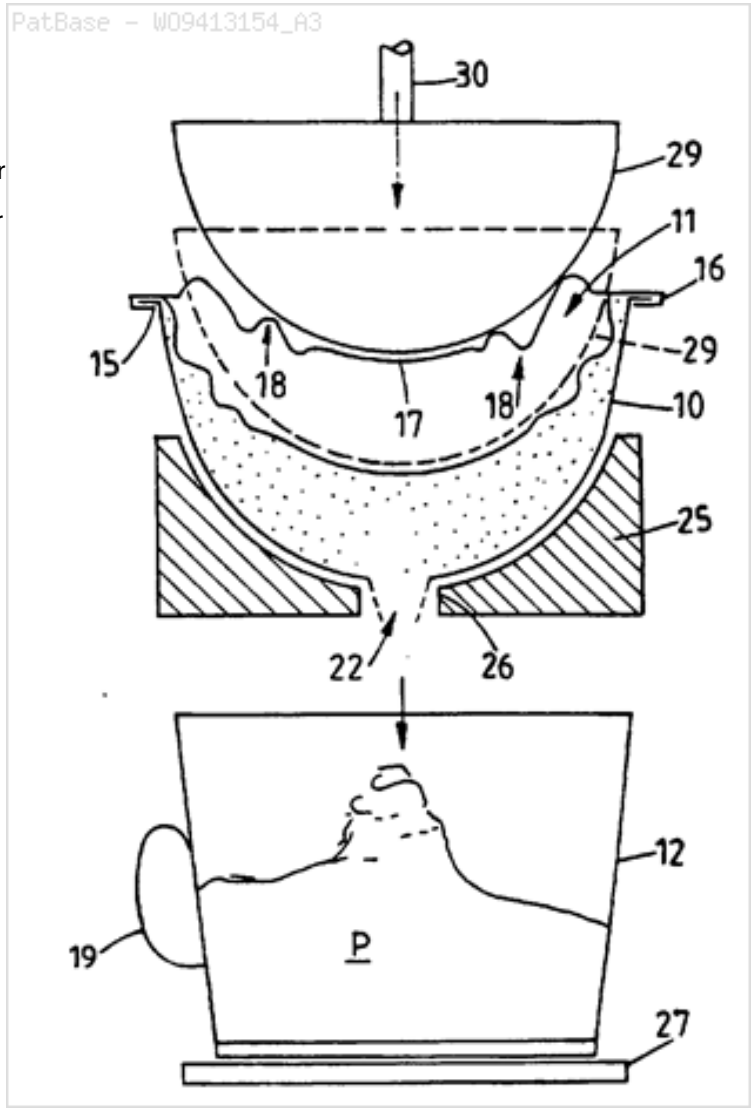
Classification Explorer

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**Forward Citations:** WO9742096, WO9601224, WO16166099, WO07087967, WO07087731, WO06129376, WO04099003, WO04099003, WO04024601, WO03082707, WO03010062, WO02102170, WO02085776, WO0130176, WO0117852, WO0022936, USRE44812, USD647926, USD643861, USD453663, US9597706, US9370198, US9115349, US9005690, US8993030, US8989893, US8394444, US8388337, US8357420, US8354503, US7993053, US7896038, US7861890, US7815954, US7665630, US7163128, US7017783, US7017779, US6820765, US6732771, US6730066, US6712236, US6390334, US6206239, US6182862, US6105820, US5967381, US2015060485, US2015053716, US2014263440, US2013170772, US2011108569, US2008057168, US2007267087, US2006255066, US2006013941, US2006006199, US2005258187, US2004181195, US2004129722, US2004031808, US2003160073, US2003090958, US2002119221, JP4268657, JP2015074460, JP2009529318, JP2008162703, JP2003512107, ITAN20100077, ITAN20100052, ITAN20100030, GB2344139, GB2344139, GB2342957, FR2854377, ES2164556, EP3100615, EP2179829, EP1710205, EP1618051, EP1551733, EP1449441, EP1386542, EP1123010, EP1095901, EP0995685, EP0827480, EP0768982, DE20306400, DE10158557, DE10158557, CN104192423, CN103193023, AU776361,

**Abstract:**
Source: US5893485A PCT No. PCT/GB93/02572 Sec. 371 Date Jun. 16, 1995 Sec. 102(e) Date Jun. 16, 1995 PCT Filed Dec. 16, 1993 PCT Pub. No. WO94/13154 PCT Pub. Date Jun. 23, 1994A dispensing mechanism is primarily intended for dispensing food products, such as ice cream, in semi−solid form. The machine has particular application in dispensing portion−sized containers of product. The containers (10) are filled with product through an open end which is then fitted with a closure member (11). The containers are then located in a discharge unit (25, 29) and the container (10) or the closure member (11) is deformed on operation of the unit. The product is discharged through an outlet which may be in the closure member or in the container.



0) US2008217361A – BEVERAGE DISPENSING ASSEMBLY

**67) Family number: 42146328** (US2008217361A) © PatBase

**Title:** BEVERAGE DISPENSING ASSEMBLY

**Priority:** EP20080731650 20080307 US20070684326 20070309 US20080014875 20080116 US20080040062 20080229 US20080088776P 20080814 US20080264023 20081103 US20090414199 20090330 WO2008US56187 20080307 US20090496051 20090701 US20090556719 20090910 US20110276488 20111019

**Family:**

| Publication number | Publication date | Application number | Application date |
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| AU2008226514 BB | 20140522 | AU20080226514 | 20080307 |
| CA2680379 AA | 20080918 | CA20082680379 | 20080307 |
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| US2008217363 AA | 20080911 | US20080040062 | 20080229 |
| US2009140006 AA | 20090604 | US20080264023 | 20081103 |
| US2009261129 AA | 20091022 | US20090414199 | 20090330 |
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| US2012031932 AA | 20120209 | US20110276488 | 20111019 |
| US8070023 BB | 20111206 | US20070684326 | 20070309 |
| WO08112535 A1 | 20080918 | WO2008US56187 | 20080307 |
| ZA200906918 A | 20100630 | ZA20090006918 | 20091005 |

**Probable Assignee:** ON TAP LLC

**Assignee(s):(std):** VITANTONIO MARC L ; SPIRK JOHN W ; TAPPER JAY ; REPLOGLE JOHN ; RABBITT WILLIAM E ; SPIRK JR JOHN W ; TAGGART JEFFREY S ; VISY PACKAGING PTY LTD ; BROWN PATRICK W ; KALMAN JEFFREY M ; NOTTINGHAM JOHN R ; NOTTINGHAM JOHN W ; ON TAP LLC

**Assignee(s):** ON TAP LLC CLEVELAND HEIGHTS

**Inventor(s):(std):** BROWN PATRICK W ; KALMAN JEFFREY M ; NOTTINGHAM JOHN R ; NOTTINGHAM JOHN W ; RABBITT WILLIAM E ; REPLOGLE JOHN ; SPIRK JOHN W ; SPIRK JR JOHN W ; TAGGART JEFFREY S ; TAPPER JAY ; VITANTONIO MARC L

**Inventor(s):** VITANTONIO MARC L SOUTH RUSSELL ; WILLIAM E RABBITT ; MARC L VITANTONIO ; JOHN W SPIRK ; JOHN W NOTTINGHAM ; JOHN REPLOGLE ; JOHN R NOTTINGHAM ; JEFFREY M KALMAN ; JAY TAPPER ; TAPPER JAY PALM BEACH GARDENS ; SPIRK JOHN W GATES MILLS ; REPLOGLE JOHN RALEIGH ; RABBITT WILLIAM E SOLON ; NOTTINGHAM JOHN W BRATENAHL ; NOTTINGHAM JOHN R BRATENAHL ; KALMAN JEFFREY M CLEVELAND HEIGHTS

**Agent(s):** SPRUSON AND FERGUSON; DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; MUELLER BORE AND PARTNER PATENTANWAELTE PARTG MBB; MUELLER BORE AND PARTNER PATENTANWAELTE; MUELLER BORE AND PARTNER PATENTANWAELTE; PONS ANGEL; FAY SHARPE LLP; WITHROW JONATHAN A

**Designated states:** AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC

LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

**International class (IPC 8–9):** B65B3/04 B65B43/40 B65B7/00 B65B7/28 B65D41/04 B65D43/26 B65D5/72 B65D83/00 B67D1/00 B67D1/04 B67D1/12 B67D1/16 B67D5/00 B67D5/06 B67D5/60 B67D7/06 B67D7/78 B67D99/00 (Advanced/Invention);
B67D1/00 (Advanced/Non–invention);
B65B43/40 B65B7/28 B65D41/04 B65D43/00 B65D5/72 B65D83/00 B67D1/00 B67D7/78 B67D99/00 (Core/Invention);
B65D B67D (Subclass/Invention)

**CPC:** B67D1/0418 B67D1/1252 B67D1/1281 B67C3/30 B67D1/0082 B67D1/0802 B67D1/0805 B67D2001/0089 B67D2001/0824 B67D1/0801 B67D1/0804 B67D1/0809 B67D1/0857 B67D1/0858 B67D1/0869 B67D1/0891 B67D1/1256 B67D1/14 B67D1/1466 B67D2210/00036

**European class:** B67C3/30 B67D1/00H8B B67D1/04B2 B67D1/08A12 B67D1/08A2 B67D1/08A4 B67D1/08A6 B67D1/08D B67D1/08D2 B67D1/08D4 B67D1/08K2 B67D1/12G B67D1/12H B67D1/12M2B B67D1/14 B67D1/14B6B L67D1/00H8M4 L67D1/08A L67D1/08A34B L67D210/00D2B2

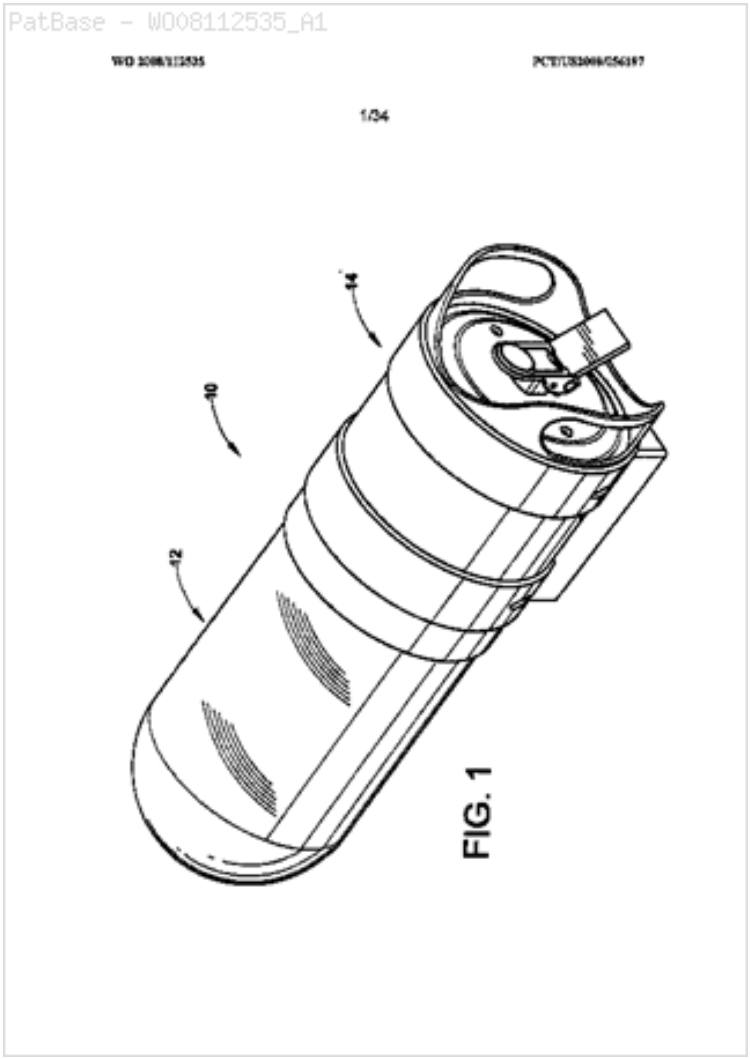
**US class:** 141/1 141/1S 215/329 215/329S 215/44 215/44S 220/200 220/260 220/707 220/707S 222/108 222/394 222/396 222/399 222/400.7 222/464.1 222/464.100S 222/5 222/571 222/571S 222/5S 53/492 53/492S

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**Forward Citations:** WO14205477, WO12167333, WO12062609, WO12056018, WO11130795, WO11079151, USD645694, USD645288, USD645287, USD617136, US9604236, US9469518, US9434595, US9352949, US9248416, US9221666, US9205387, US9181021, US9126816, US9038923, US8950636, US8919669, US8906438, US8820556, US8757439, US8469242, US8464766, US8157435, US2015266713, US2015203341, US2015053277, US2014332553, US2014272052, US2014263477, US2014075888, US2013306673, US2013233895, US2013233878, US2013221034, US2013214011, US2013068798, US2013015212, US2013008898, US2012312837, US2012228311, US2011240765, US2011147406, US2011121027, US2011038989, US2011036807, US2011036414, US2010294799, US2010232256, US2010126595, US2010005811, RU2575596, JP2014520042, GB2488717, GB2488717, EP2987767, EP2447208, CN104670706, CN103344391, CN103189304, CN103189304, CN102834184, BE1020003, AU2013328605,

**Abstract:**
Source: US2008217361A A beverage dispensing assembly that is capable of dispensing controlled or metered portions of a beverage charged with a gas fits onto a shelf in a conventional household refrigerator. The beverage dispensing assembly includes a sealed disposable container assembly that contains the beverage and a dispensing assembly that cooperates with the container assembly to selectively unseal the container assembly and dispense controlled portions of the beverage from the container assembly.



0) US2012110810A – MEDICAL DEVICE WITH FEATURE FOR STERILE ACCEPTA...

**68) Family number: 51065154** (US2012110810A) © PatBase

**Title:** MEDICAL DEVICE WITH FEATURE FOR STERILE ACCEPTANCE OF NON–STERILE REUSABLE COMPONENT

**Priority:**

| | | | | | |
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| EP20110782346 | 20111103 | US20100410603P | 20101105 | US20110151488 | 20110602 |
| US20110151471 | 20110602 | US20110151498 | 20110602 | US20110151481 | 20110602 |
| US20110151509 | 20110602 | US20110151512 | 20110602 | US20110269870 | 20111010 |
| US20110270701 | 20111011 | US20110151503 | 20110602 | US20110271352 | 20111012 |
| US20110270667 | 20111011 | US20110270684 | 20111011 | US20110275514 | 20111018 |
| US20110271364 | 20111012 | US20110274480 | 20111017 | US20110274805 | 20111017 |
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| WO2011US59215 | 20111103 | WO2011US59217 | 20111103 | WO2011US59220 | 20111103 |
| WO2011US59222 | 20111103 | WO2011US59223 | 20111103 | WO2011US59226 | 20111103 |
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| WO2011US59381 | 20111104 | US20150788915 | 20150701 | US20160992104 | 20160111 |
| US20160008530 | 20160128 | US20160212423 | 20160718 | US20160229418 | 20160805 |
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**Family:**

| Publication number | Publication date | Application number | Application date |
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**Designated states:** AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

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**Abstract:**
Source: US2012110810A An apparatus maintains the sterility of a medical device while providing for the insertion of an insertable component into the medical device. The apparatus includes a medical device having a housing sized to contain the insertable component, an active feature, a cap, and a hinge member. A container encases the medical device within a device recess, a cap recess, and a container cover. The insertable component may be inserted into the housing while limiting potential contact with the exterior of the medical device. An alternative assembly comprises an insertion assembly having a handle and the insertable component detachably attached thereto. The medical device comprises a housing, an active feature, and a flexible member. An insertion tube is insertable within the flexible member to limit contact when the insertable component is inserted into the housing. Yet another configuration includes a resiliently hinged door assembly releasable by a release button.

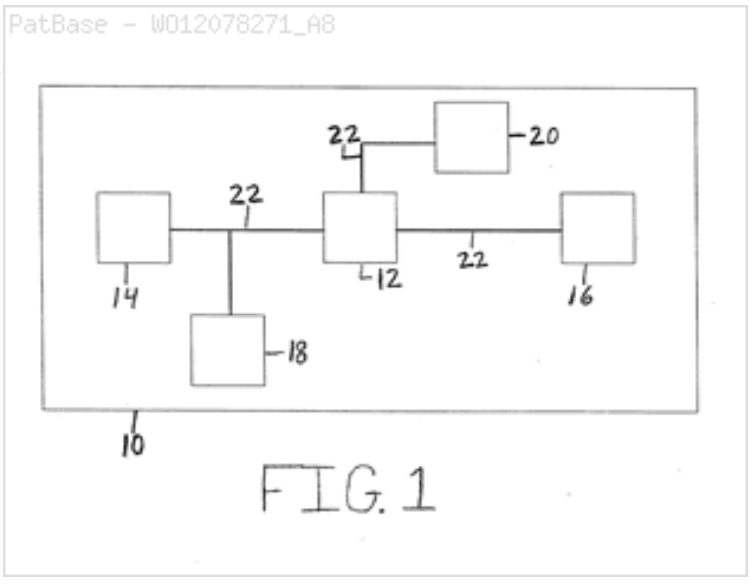


FIG. 1

0) US2007109913A – METHOD AND APPARATUS FOR PREPARING BEVERAGES

**69) Family number: 32595317** (US2007109913A) © PatBase

**Title:** METHOD AND APPARATUS FOR PREPARING BEVERAGES

**Priority:** GB20050023341 20051116 GB20060015958 20060811 US20060600283 20061116 US20060836974P 20060811 US20060837316P 20060814 US20060836974P 20060811 US20060837316P 20060814 WO2006GB04271 20061116

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| EP1962657 A2 | 20080903 | EP20060808560 | 20061116 |
| GB200523341 A0 | 20051228 | GB20050023341 | 20051116 |
| GB200615958 A0 | 20060920 | GB20060015958 | 20060811 |
| US2007109913 AA | 20070517 | US20060600283 | 20061116 |
| WO07057671 A2 | 20070524 | WO2006GB04271 | 20061116 |
| WO07057671 A3 | 20070705 | WO2006GB04271 | 20061116 |

**Probable Assignee:** MCGIL TECHNOLOGY LTD

**Assignee(s):(std):** MCGILL SHANE ROBERT ; MCGILL TECH LTD

**Assignee(s):** MCGILL TECHNOLOGY LIMITED ; MCGILL TECHNOLOGY LTD ; MCGIL TECHNOLOGY LTD

**Inventor(s):(std):** MCGILL SHANE R ; MCGILL SHANE ROBERT

**Inventor(s):** MCGILL SHANE

**Agent(s):** CHETTLE ADRIAN JOHN ET AL; NIXON AND VANDERHYE PC

**Designated states:** AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

**International class (IPC 8–9):** A47J43/042 A47J43/046 B65D1/46 B65D21/02 (Advanced/Invention); A47J43/04 B65D1/40 B65D21/02 (Core/Invention)

**CPC:** A47J43/046 A47J31/4407 A47J43/0716 A47J43/0722

**European class:** A47J43/046 A47J43/07C A47J43/07C2 K47J31/44A1

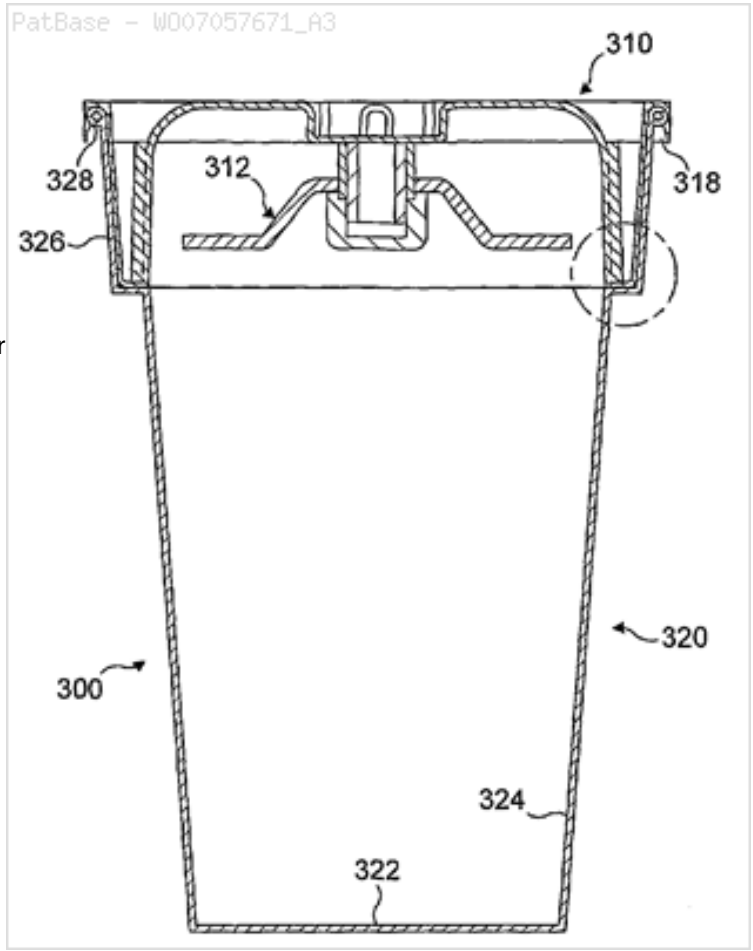
**US class:** 366/205 366/247

Classification Explorer

**Cited documents:** WO04002281 A1, US4923557 A, US4889248 A, US4708487 A, US4408690 A, US3704864 A, US3520441 A, US3420397 A, US3396868 A, US3381872 A, US3353707 A, US3347411 A, US2042176 A, GB2398267 A1, FR2514731 A1, DE20006094 U1,

**Forward Citations:** WO10064042, WO10064042, WO08142382, WO08142382, US9066627, US8142068, US7938574, US2015305527, US2014113048, US2011205834, US2006209627, JP2012510267, GB2480992, AU2009323829,

**Abstract:**
Source: US2007109913A A blended beverage is prepared using a first solid ingredient and a second liquid ingredient, the ingredients being stored in separate storage vessels, those vessels being coupled to one another. The liquid ingredient is intended to be poured from its storage vessel onto the solid ingredient, so that the solid and liquid ingredients can be blended together in the same storage vessel. The storage vessel into which the liquid ingredient is poured has a lid which carries an impeller for blending the ingredients together. The container may include an internal shoulder for seating the lid inside the walls of the storage vessel.



0) US4340073A – EXPANDING TOBACCO

**70) Family number: 24048736** (US4340073A) © PatBase

**Title:** EXPANDING TOBACCO

**Priority:** MX19750137696 19750102 NO19740003552 19741001 US19840625404 19840628 US19740441767 19740212

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| AR201523 A1 | 19750321 | AR19740256540 | 19741115 |
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| BE821568 A1 | 19750217 | BE19740149957 | 19741028 |
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| BR7500933 A | 19751202 | BR19750000933 | 19750214 |
| CA1013640 A1 | 19770712 | CA19740211007 | 19741008 |
| CH587615 A | 19770513 | CH19740014432 | 19741028 |
| DE2446899 A1 | 19750821 | DE19742446899 | 19741001 |
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| DE2446899 C3 | 19771103 | DE19742446899 | 19741001 |
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| FI58048 B | 19800829 | FI19740002867 | 19741001 |
| FI58048 C | 19801210 | FI19740002867 | 19741001 |
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| FR2260301 B1 | 19771028 | FR19740036258 | 19741030 |
| GB1444309 A | 19760728 | GB19740044467 | 19741014 |
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| IL45986 A1 | 19780731 | IL19740045986 | 19741103 |
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| JP1059835 C3 | 19810825 | JP19740138813 | 19741130 |
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| MX151707 A | 19850213 | MX19750169124 | 19750102 |
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| NL7501808 A | 19750819 | NL19750001808 | 19750215 |
| NO142650 B | 19800616 | NO19740003552 | 19741001 |
| NO142650 C | 19800924 | NO19740003552 | 19741001 |
| NO743552 A | 19750813 | NO19740003552 | 19741001 |
| PH14295 A | 19810504 | PH19740016485 | 19741105 |
| SE410815 B | 19791112 | SE19740012497 | 19741003 |
| SE410815 C | 19800221 | SE19740012497 | 19741003 |
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| SE7412497 L | 19750813 | SE19740012497 | 19741003 |

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| YU282274 A | 19820225 | YU19740002822 | 19741022 | |
| YU36855 B | 19840831 | YU19740002822 | 19741022 | |

**Probable Assignee:** PHILIP MORRIS INC

**Assignee(s):**(std)**:** FILIP MORRIS INKORPOREJTED FA ; FRANCES LEITCH VON SACHER ; FRANCES LEITCH VON SACHER TE NEW MILFORD CONNECTIC ; PHILIP MORRIS INC ; VON SACHER F ; PHILIP MORRIS INC US ; PHILLIP MORRIS INC ; SACHER F ; PHILIPS MORRIS INC ; PHILIP MORRIS INC TE NEW YORK ; MORRIS PHILIP INC ; SACHER FRANCES VON ; PHILIP MORRIS INC NEW YORK N Y V ST A

**Assignee(s):** FRANCES LEITCH VON SACHER TE NEW MILFORD CONNECTICUT VER ST V AM ; MORRIS INC PHILIP ; FILIP MORRIS INKORPOREJTED FIRMA ; AUMENT PATRICK E ; DE LA BURDE ROGER Z

**Inventor(s):**(std)**:** VA ; SACHER FRANCES VON ; ROGER ZYGMUNT DE LA BURDE ; RODZHER ZIGMUNT DE LYA BURDE US ; R Z DE LA BURDE ; PATRIK IOMENT US ; PATRICK E AUMENT ; P E AUMENT ; DE LA BURDE ROGER Z ; DE LA BURDE R Z ; DE LA BURDE R ; DE LA BRUDE ROGER Z ; DE LA BRUDE ; BURDE ROGER ZYGMUNT DE LA POWHATAN ; BURDE R ; AUMENT PE ; AUMENT P E ; AUMENT P ; AUMENT ; VON SACHER F ; ROGER ZYGMUNT ; OMENT PATRIK I ; BURDE ROGER ZYGMUNT DE LA ; BURDE RODZHER ZIGMUNT DE LYA ; BURDE DE LA R Z ; AUMENT PATRICK E ; ZYGMUNT ROGER ; ZYGMUNG R

**Inventor(s):** VON SACHER FRANCES ; PATRIK I OMENT US ; LA BURDE ROGER ZYGMUNT DE ; E AUMENT PATRICK

**Agent(s):** SPAER SITTON AND CO ADV

**International class (IPC 8–9):** A24B3/04 A24B3/18 A24B5/16 A24C1/00 A61G11/00 A61N5/00 A61N5/06 (Advanced/Invention) ; A24B3/00 A24B5/00 A24C1/00 A61G11/00 A61N5/00 A61N5/06 (Core/Invention)

**International class (IPC 1–7):** A24B15/00 A24B15/04 A24B15/18 A24B3/06 A24B3/08 A24B3/18 A24C1/00 A24D A61B1/00 A61G12/00 A61M16/02 A61N5/00 B01J1/22 B01L1/00 E04B1/62

**CPC:** A61N5/06 A24B3/18 Y10S131/90 A24B3/185

**European class:** A24B3/18 A24B3/18B2 A61G11/00 A61N5/06

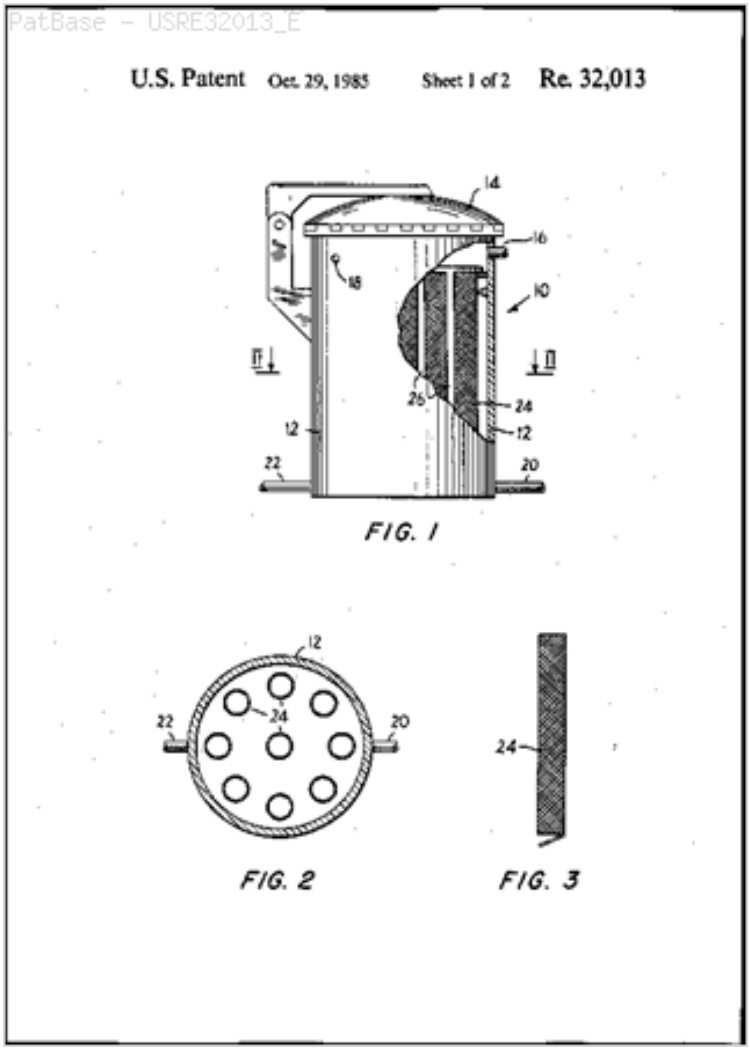
**US class:** 131/244 131/291 131/294 131/295 131/296 131/900

Classification Explorer

**Cited documents:** US3771533 A, US3665061 A, US3575178 A, US1924827 A, US1789435 A, CA971067 A1,

**Forward Citations:** WO9632192, WO9526215, WO9511585, WO7900857, WO14165760, WO14015228, WO13160671, WO13155177, WO13148810, WO13122948, WO12123285, WO12110819, WO12021683, WO11081725, WO10141278, WO0010401, USRE32014, US9605890, US9439452, US8178145, US7556047, US7025066, US6591840, US6581608, US6575170, US6254902, US6209546, US5819754, US5799665, US5259403, US5251649, US5143096, US5095922, US5076293, US5056537, US4791942, US4766912, US4577646, US4532945, US4519407, US4336814, US4310006, US4308876, US4289148, US4270553, US4257431, US4250898, US2011173721, US2010206317, US2008135057, US2007137663, US2007034220, US2004182404, US2004084056, JP62161018, JP60004101, JP2015536149, JP2014500035, GB2183441, GB2151451, FR2447155, FR2399807, EP2090720, EP2090720, EP1925218, EP1104996, EP0823220, EP0500226, EP0404473, EP0121058, EP0100590, EP0055541, EP0029588, DE3602098, DE3523825, DE2912322, DE2834501, DE2625241, AU644934, AT515357, AT515357,

**Abstract:**
Source: US4340073A A process for expanding tobacco is provided which employs liquid carbon dioxide as the expansion agent. Tobacco is contacted with liquid carbon dioxide to thoroughly impregnate the tobacco with the liquid carbon dioxide. The carbon dioxide impregnated tobacco is maintained at a temperature no lower than −2 DEG C. and under conditions of temperature and elevated pressure such that all or substantially all of the carbon dioxide which is in contact with the tobacco is in liquid form. After the impregnation has been completed, any excess liquid carbon dioxide which may be present with the tobacco may be removed from the tobacco. The elevated pressure is then reduced in order to convert the liquid carbon dioxide to solid carbon dioxide within the tobacco structure. The resulting solid carbon dioxide−containing tobacco is then subjected to conditions of temperature and pressure, preferably by rapid heating at atmospheric pressure, such that the solid carbon dioxide is vaporized and the tobacco is thereby expanded. Apparatus for carrying out the above described process is also provided.



0) EP1238615A2 – ELECTRIC INFUSION BEVERAGE MAKER ELEKTRISCHE AU...

**71) Family number: 13559862** (EP1238615A2) © PatBase

**Title:** Electric infusion beverage maker

**Priority:** GB20010005385 20010305

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| EP1238615 A2 | 20020911 | EP20020251511 | 20020305 |
| EP1238615 A3 | 20021030 | EP20020251511 | 20020305 |
| GB200105385 A0 | 20010418 | GB20010005385 | 20010305 |
| GB2372937 A1 | 20020911 | GB20010005385 | 20010305 |
| GB2372937 B2 | 20050629 | GB20010005385 | 20010305 |

**Probable Assignee:** STRIX LTD

**Assignee(s):**(std)**:** STRIX LTD

**Assignee(s):** STRIX LIMITED

**Inventor(s):**(std)**:** SCOTT MICHAEL JAMES

**Inventor(s):** MICHAEL JAMES SCOTT

**Designated states:** AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

**International class**(IPC 8–9)**:** A47J27/21 A47J31/047 (Advanced/Invention); A47J27/21 A47J31/04 (Core/Invention)

**International class**(IPC 1–7)**:** A47G19/14 A47J31/047 A47J31/30

**CPC:** A47J27/21058 A47J31/047

**European class:** A47J27/21B4 A47J31/047

Classification Explorer

**Cited documents:** WO0030514 A1, US2856844 A, GB2346074 A1, GB2344744 A1, GB1463009 A, EP0232611 A1,

**Forward Citations:** WO16008388, WO14076192, WO14076192, WO10041003, US6886451, GB2466219, EP2732738, EP2162676, EP1442689, EP1277429,

**Abstract:**
Source: EP1238615A2 A tea making appliance 2 comprises a water heating vessel 4 provided with a thick film heater 24 on its base 20 and an infusion vessel 6 arranged thereon, containing in use a dose of tea leaves. A tube 8 extends down from the infusion vessel 6 into water heating vessel 4. As water in the water heating vessel 4 is heated, the vapour pressure in the vessel 4 increases, with vapour escaping from the vessel 4 through a valve unit 46. When the water begins to boil, a ball 50 in the valve unit 46 is forced by the vapour pressure against its seat 54 to close the valve, forcing heated water to flow through tube 8 into the infusion vessel 6. Once transfer of the water is complete, a control unit 72 operates to disconnect the power supply to the heater 24. The steam pressure in the water heating vessel 4 begins to fall, and valve 46 reopens, allowing infused tea to flow back into the water heating vessel 4.

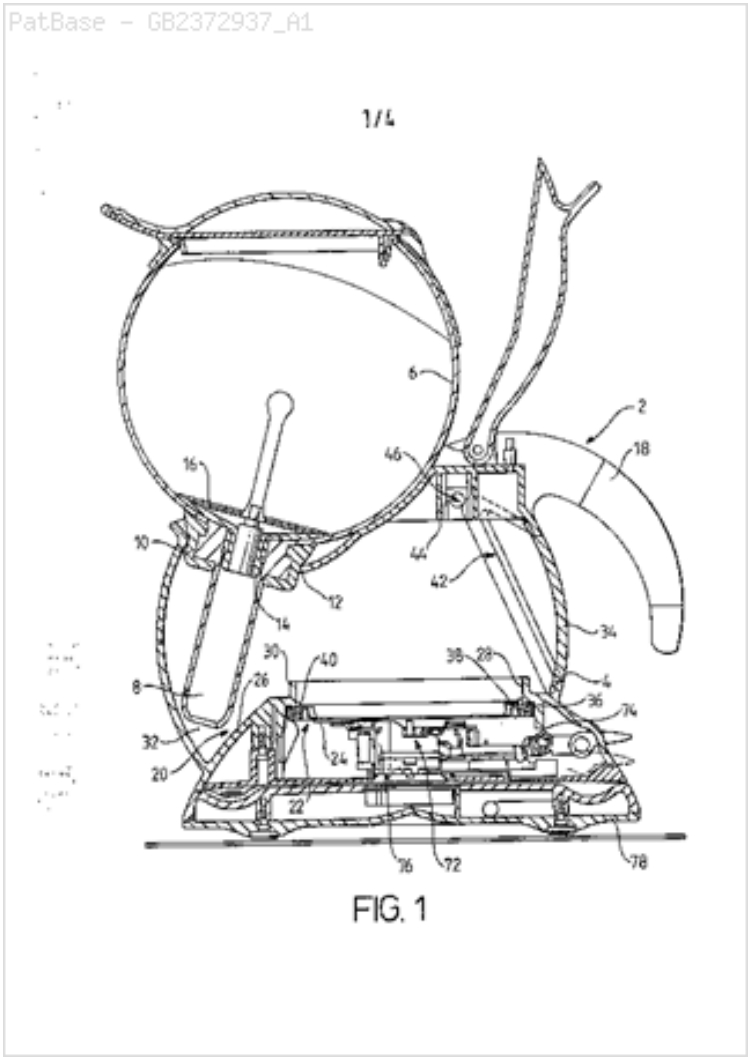


FIG. 1

0) US2003015129A – SYSTEM TO KEEP ANY TYPE OF VESSEL AFLOAT IN CAS...

**72) Family number: 32401711** (US2003015129A) © PatBase

**Title:** System to keep any type of vessel afloat in case of a leak

**Priority:** ES19980002401 19981114 ES19980002401 19981116 US20020172813 20020613 US20010831265 20010718 WO1999ES00365 19991112

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
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| AU200010477 A1 | 20000605 | AU20000010477 | 19991112 |
| AU200010477 A5 | 20000605 | AU20000010477 | 19991112 |
| AU749679 B2 | 20020704 | AU20000010477 | 19991112 |
| CA2349954 AA | 20010504 | CA19992349954 | 19991112 |
| CA2349954 C | 20060124 | CA19992349954 | 19991112 |
| DE69905202 D1 | 20030306 | DE19996005202 | 19991112 |
| DE69905202 T2 | 20031127 | DE19996005202T | 19991112 |
| DK1151914 T3 | 20030526 | DK19990954006T | 19991112 |
| EP1151914 A1 | 20011107 | EP19990954006 | 19991112 |
| EP1151914 B1 | 20030129 | EP19990954006 | 19991112 |
| ES2163958 AA | 20020201 | ES19980002401 | 19981114 |
| ES2163958 BA | 20030401 | ES19980002401 | 19981114 |
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| JP3543270 B2 | 20040714 | JP20000582290T | 19991112 |
| PT1151914 T | 20030630 | PT19990954006T | 19991112 |
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| US6431108 BA | 20020813 | US20010831265 | 20010718 |
| US6550415 BB | 20030422 | US20020172813 | 20020613 |
| WO0029284 A1 | 20000525 | WO1999ES00365 | 19991112 |

**Probable Assignee:** KAFLOAT SL

**Assignee(s):**(std)**:** LLOVERES VICENTE LOPEZ PEREA ; KAFLOAT S L ; LOPEZ PEREA LLOVERES VICENTE ; GOMEZ PORTELA CESAR ; CESAR GOMEZ PORTELA ; GOMEZ PORTELA C EACUTE SAR ; GOMEZ PORTELA ; VICENTE LOPEZ PEREA LLOVERES ; PORTELA CESAR GOMEZ

**Assignee(s):** GOMEZ PORTELA Ce SAR ; GOMEZ PORTELA C AND EACUTE SAR ; KAFLOAT SL REY DULLAH AB ; KAFLOAT SL

**Inventor(s):**(std)**:** CESAR GOMEZ PORTELA ; GOMEZ PORTELA ; GOMEZ PORTELA C EACUTE SAR ; GOMEZ PORTELA CESAR ; LLOVERES VICENTE LOPEZ PEREA ; LOPEZ PEREA LLOVERES VICENTE ; PORTELA CESAR GOMEZ ; VICENTE LOPEZ PEREA LLOVERES

**Agent(s):** PHILLIPS ORMONDE FITZPATRICK; OYEN WIGGS GREEN AND MUTALA LLP

**Designated states:** AT AU BE CA CH CY DE DK ES FI FR GB GR IE IT JP LI LU MC NL PT SE US

**International class (IPC 8–9):** B63B43/12 B63B43/14 B63B43/16 B63C7/12 (Advanced/Invention); B63B43/00 B63C7/00 (Core/Invention)

**International class (IPC 1–7):** B63B43/02 B63B43/12 B63B43/14 B63B43/16 B63C7/12

**CPC:** B63B2043/145 B63J2099/006 B63B43/14

**European class:** B63B43/14 L63B43/14P L63J99/00C

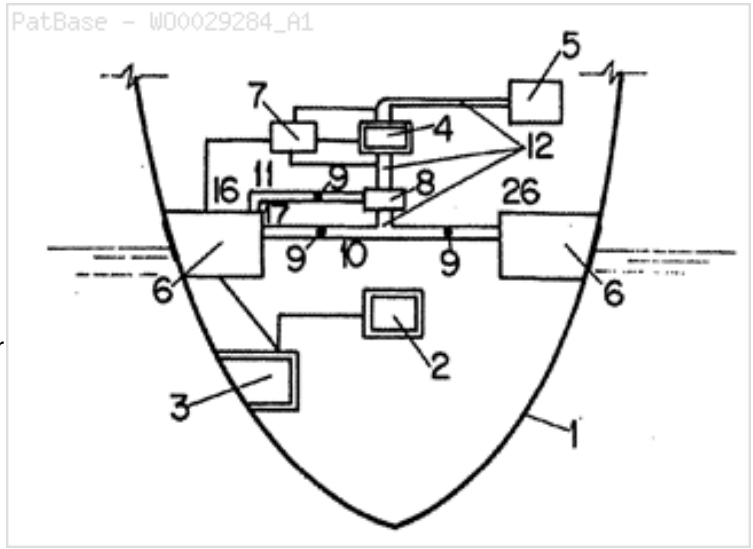
**US class:** 114/123 114/360 114/68

Classification Explorer

**Cited documents:** US4887541 A, US4864961 A, US4817555 A, US3940989 A, US3440989 A, US3340842 A, US3016858 A, US2938488 A, US1328122 A, GB2120177 A1, FR2741588 A1,

**Forward Citations:** WO17064117, WO09128979, WO07028847, WO06116448, WO05042280, WO05042280, WO03070564, US9180945, US8997673, US7156033, US6830004, US6612256, US2011239925, US2008229997, US2006016380, US2005268837, US2004040489, US2004003766, RU2494912, KR101659221, ITBO20100349, FR3011814, ES2286926, EP1932755, EP1877304, EP1877304, CN105015727,

**Abstract:**
Source: US2003015129A A system to keep any type of vessel afloat in case of entry of water or capsizing by means of providing an unfolding mechanism of inflatable flotation and stabilization elements through the outside of the hull of the vessel, including a variety of devices that are actuated automatically or manually if necessary when a water level or inclination meter inside the vessel detects that water has reached a maximum permitted level or an excessive inclination occurs, which causes the opening of an electrically operated valve to allow pressurized fluid to pass in order to unfold said flotation and stabilization elements. Alternatively, another unfolding mechanism may consist of a pair of cylinders screwed to one another, through the wall of the hull, the interior cylinder of which encloses the flotation and stabilization elements and the exterior cylinder of which includes a cover on its outside face that can be ejected by the pressure exerted from the interior.



0) US2015000530A – AUTOMATED BEER BREWING SYSTEM WITH VESSEL FOR B...

**73) Family number: 58178680** (US2015000530A) © PatBase

**Title:** AUTOMATED BEER BREWING SYSTEM WITH VESSEL FOR BREWING AND FERMENTING

**Priority:** US20110323537 20111212 US20110449023P 20110303 US20140485655 20140912 US20140485659 20140912 US20140485660 20140912 US20150658100 20150313 US20150658104 20150313 US20150658109 20150313 US20170416226 20170126

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| US2015000530 AA | 20150101 | US20140485655 | 20140912 |
| US2015000531 AA | 20150101 | US20140485659 | 20140912 |
| US2015000532 AA | 20150101 | US20140485660 | 20140912 |
| US2017130177 AA | 20170511 | US20170416226 | 20170126 |
| US9102908 BA | 20150811 | US20150658104 | 20150313 |
| US9109192 BA | 20150818 | US20150658100 | 20150313 |
| US9228163 BA | 20160105 | US20110323537 | 20111212 |
| US9376653 BA | 20160628 | US20150658109 | 20150313 |

**Probable Assignee:** PICOBREW INC

**Assignee(s):**(std)**:** MITCHELL JAMES B ; MITCHELL WILLIAM H ; PICOBREW INC ; PICOBREW LLC

**Assignee(s):** PICOBREW INC A DELAWARE CORP

**Inventor(s):**(std)**:** GEIGER AVI R ; MITCHELL JAMES B ; MITCHELL WILLIAM H

**Agent(s):** RUSSELL S; KRAJEC PATENT OFFICES LLC; RUSSELL

**International class**(IPC 8–9)**:** C12C1/02 C12C11/00 C12C13/02 C12C13/10 C12C7/04 C12C7/06 C12C7/20 (Advanced/Invention); C12C11/00 C12C7/26 (Advanced/Non–invention)

**CPC:** C12C7/20 C12C7/04 C12C11/003 C12C13/10 C12C7/26 C12C13/02 C12C7/205 C12C11/006 C12C1/02 C12C7/06

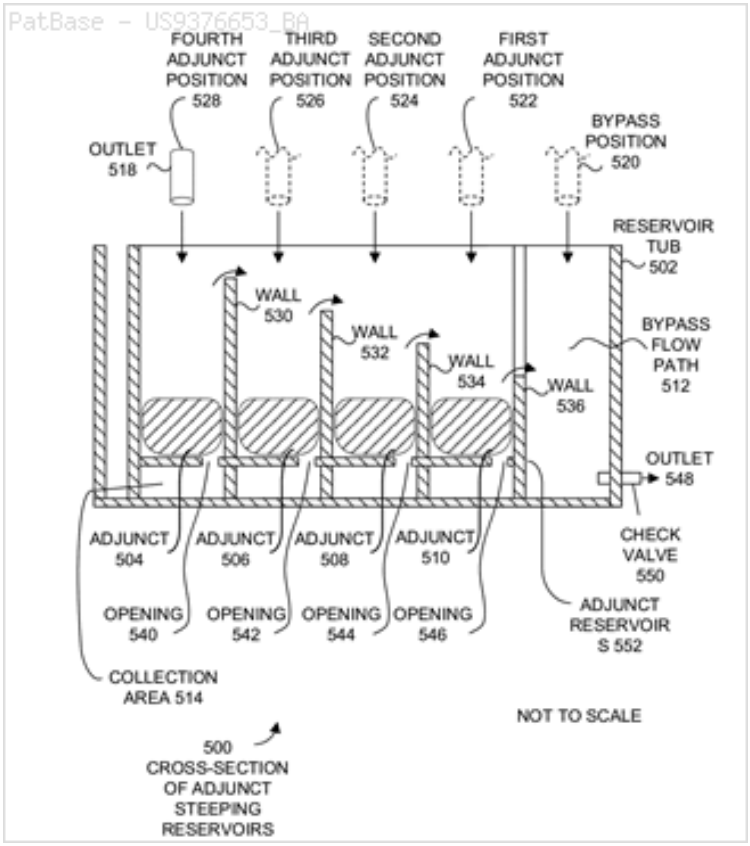
**US class:** 1/1 99/276 99/278

Classification Explorer

**Cited documents:** US941009 A, US8993273 BA, US7963213 BA, US6629490 BA, US6032571 A, US5970846 A, US5868062 A, US5865093 A, US5311811 A, US5265518 A, US5158793 A, US4790239 A, US4754698 A, US4754696 A, US4751875 A, US4557186 A, US4503502 A, US3984326 A, US3683790 A, US3563157 A, US2830528 A, US2761200 A, US2547481 A, US2015000532 AA, US2015000531 AA, US2015000530 AA, US2014234482 AA, US2014017354 AA, US2011268846 AA, US2010313765 AA, US2010236949 AA, US2010107887 AA, US2009246341 AA, US2009229471 AA, US2009007796 AA, US2008282897 AA, US2008000357 AA, US2005160917 AA, US2005011364 AA, US2003019031 AA, US2002029694 AA, US2001035097 AA,

**Forward Citations:** WO17037622, US9376653, US9228163, US9109192, US9102908, US2015000531,

**Abstract:**
Source: US2015000530A A beer making system may use a detachable vessel to contain liquid during the mashing and boiling steps, and may also be used during the fermentation steps of beer making. The beer making system may recirculate liquid through the vessel, then select between several flow paths during the beer making process. A removable reservoir system having a grain reservoir and several hops or adjunct reservoirs may be selected as a flow path, as well as a bypass flow path. A programmable controller may cause liquid to recirculate through a heater and one of the various flow paths, the sequence, timing, and temperature profile of which are defined in a recipe for a particular beer.



0) US2015060440A – FRESH FOOD SHIPPING VESSEL

**74) Family number: 58629182** (US2015060440A) © PatBase

**Title:** FRESH FOOD SHIPPING VESSEL

**Priority:** US20130873274P 20130903 US20140475433 20140902 US20140986790P 20140430 WO2014US53740 20140902

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| CN105658538 A | 20160608 | CN201480056466 | 20140902 |
| EP3041760 A2 | 20160713 | EP20140771451 | 20140902 |
| US2015060440 AA | 20150305 | US20140475433 | 20140902 |
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| WO15034837 A3 | 20150430 | WO2014US53740 | 20140902 |

**Probable Assignee:** FRESHREALM LLC

**Assignee(s):**(std)**:** FRESHREALM LLC

**Inventor(s):**(std)**:** BOTSAI KURT ; BOTSAI KURT G ; CEDERBLOM LEIF ; FARRELL WILLIAM ; HOYT SHELDON ; HUSSEY LANCE ; HUSSEY LANCE G ; JACKSON RANDY ; JACKSON RANDY S ; LIPPOLD MICHAEL ; SAWHNEY RAVI ; SAWHNEY RAVI K ; STYN JOHN ; TICKLE JAMES ; TICKLE JAMES D ; VANDERPOL GREGORY ; VANDERPOL GREGORY A

**Agent(s):** LAM ALVIN; RISSO MARCUS L

**Designated states:** AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

**International class (IPC 8–9):** B65D81/02 B65D81/38 (Advanced/Invention)

**CPC:** B65D81/02 B65D81/38 B65D81/3811 B65D2313/04

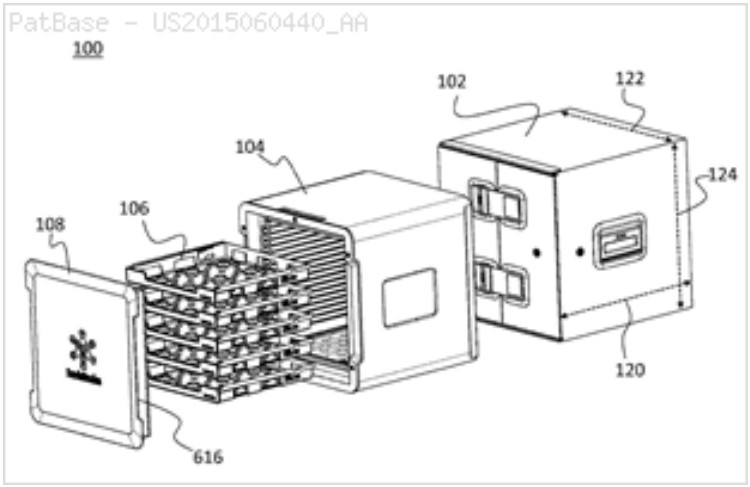
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Classification Explorer

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**Forward Citations:** US2016185503,

**Abstract:**
Source: US2015060440A A fresh food shipping Vessel is described. The food shipping Vessel includes an outer protective shell, an internal insulation cage with a closing lid and a plurality of drawers. The drawers and other components are specifically designed to provide for conductive and/or convective properties within the Vessel to assist in maintaining food items at a desired temperature. Further, the food containers and ice packs are also designed to assist in the conductive and/or convective properties of the food shipping Vessel, thereby allowing for shipment of fresh food products for extended periods of time.



0) US2009077675A – SMART WALLET

**75) Family number: 43025721** (US2009077675A) © PatBase

**Title:** SMART WALLET

**Priority:** US20070972608P 20070914 US20080125003 20080521 WO2008US64413 20080521 US20140246735 20140407 US20150968508 20151214

**Family:**

| Publication number | Publication date | Application number | Application date |
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**Probable Assignee:** IWALLET CORP

**Assignee(s):**(std)**:** CABOULI STEVEN ; CABOULI STEVEN D ; IWALLET CORP ; STEVEN CABOULI

**Inventor(s):**(std)**:** CABOULI STEVEN ; CABOULI STEVEN D ; CATINELLA PAUL E ; LANE ROBERT A ; MOS ROBERT J ; SCHILLING MARCO A ; VON MUELLER CLAY

**Inventor(s):** STEVEN D CABOULI

**Agent(s):** APT PATENT AND TRADE MARK ATTORNEYS; PERLEY ROBERTSON HILL AND MCDOUGALL LLP; DIXON PHILIP MATTHEW; CATALYST LAW GROUP APC; LAW OFFICE OF MICHAEL E KONDOUDIS; RICHARD D; KOHN DAVID M

**Designated states:** AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

**International class (IPC 8–9):** A45C1/06 A45C1/12 A45C13/18 A45C15/00 G06F21/00 G06F21/32 G06F21/34 G06F21/86 G06K17/00 G06Q20/34 G06Q20/40 G07C9/00 G07F17/12 G07F19/00 G07F7/08 G07F7/10 G08B21/24 H04L29/06 H04W12/06 H04W12/08 H04W4/00 H04W4/02 (Advanced/Invention); G08B13/14 G08B21/24 (Advanced/Non–invention); G06F21/00 G06K17/00 G07F19/00 (Core/Invention)

**CPC:** G07C9/00563 H04W4/008 H04W12/06 H04W4/02 G07C9/00912 G07C9/00309 G07C2009/00769 G07C2009/00523 G06Q20/341 G06Q20/40145 G07F7/0866 G07F7/1008 A45C1/06 A45C13/185 G06F21/32 G06F21/34 G06F21/86 G07F17/12 G08B13/1427 G08B13/1436 G08B21/24 H04L63/0853 H04L63/0861 H04W12/08

**European class:** A45C1/06 A45C13/18P G06Q20/341 G06Q20/40145 G07C9/00E6 G07F7/08C G07F7/10D G08B21/24

**US class:** 1/1 340/5.52 713/172 726/20 726/21 726/34 726/34P 726/9

Classification Explorer

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**Forward Citations:** USD751816, USD668835, US9524627, US9489821, US9293018, US9286783, US9047605, US8810392, US8730043, US8436731, US2017018132, US2016063829, US2015317898, US2015272212, US2015230072, US2014298492, US2013241737, US2013169429, US2012029928, US2011133933, US2010302032, US2010033329, US2010032332, US2009199004, US2008190526, CN104365040, CN103021141,

**Abstract:**
Source: US2009077675A A smart wallet that can only be exclusively opened by an authorized individual through biometric authentication is disclosed. The smart wallet also has a security system associated therewith to prevent the smart wallet from being lost or stolen. The system comprises a fob key configured to send periodic wireless transmissions to the smart wallet device having the ability for approximate range detection. Various embodiments include audible, visual and vibrational indications for authentication, battery power and range detection.

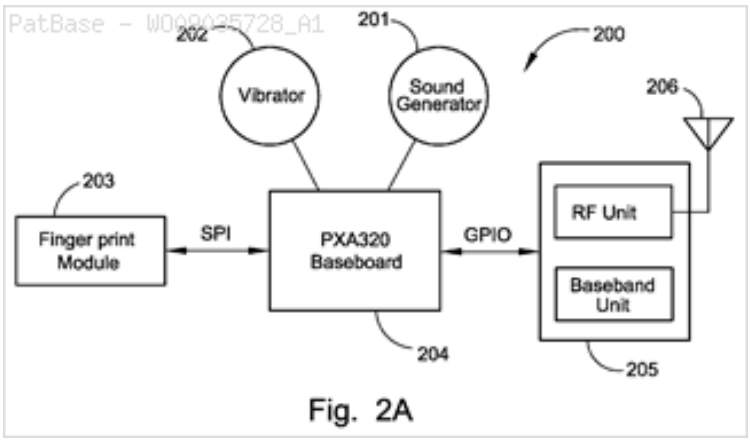


Fig. 2A

0) US2005112634A – HIGH DENSITY SEQUENCE DETECTION METHODS AND APP...

**76) Family number: 31767603** (US2005112634A) © PatBase

**Title:** HIGH DENSITY SEQUENCE DETECTION METHODS AND APPARATUS

**Priority:**

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| WO07117445 A3 | 20081023 | WO2007US08275 | 20070330 | |

**Probable Assignee:** APPLIED BIOSYSTEMS LLC

**Assignee(s):**(std)**:** STUDIOSTAMPA INC ; STAMP ARLENE ; REEVE VINCENT ; LU MIKE ; SANDELL DON ; PATEL JAYNISH ; WOUDENBERG TIMOTHY ; OLDHAM MARK ; LIM GARY ; LIVAK KENNETH ; LIU TIMOTHY ; REED MARK T ; SHANNON MARK ; OLDHAM MARK F ; RUFF DAVID ; LU MIKE Y ; SANDELL DONALD ; MACK JEROME A ; NGUYEN HOANG ; REEVE VINCENT M ; YAN TONY S ; WOUDENBERG TIM ; OSTADAN OMEAD ; PRATT MARK R ; STEVENS JUNKO F ; TOMANEY AUSTIN B ; YOUNG GREG ; TOMANEY AUSTIN ; STEVENS JUNCO F ; ULDHAM MARK ; WOUDENBERG TIMOTHY M ; LIVAK KENNETH J ; SHANNON MARK E ; RUFF DAVID W ; BLASENHEIM BARRY ; LI ROBIN ; CARRILLO ALBERT ; HARDING IAN ; KAO H PIN ; ERMAKOV SERGEY ; FAWCETT ADRIAN ; JONES BOB ; JONES ROBERT C ; CARRILLO ALBERT L ; HARDING IAN A ; LEHTO DENNIS A ; FOCARACCI JULIO P ; GUERRA ROBERT ; KAO H P ; HAYASHIBARA KATHLEEN C ; KARGER ACHIM ; LAIRD HYLAND FIONA C ; GUNSTREAM STEPHEN J ; KINNEY PATRICK D ; K LAU ALDRICH N ; AMIN YUSUF ; ANGELICA STEVE ; APLERA CORP ; APPLERA CORP ; APPLIED BIOSYSTEM LLC ; APPLIED BIOSYSTEMS ; BODNER KEVIN ; BODEAU JOHN ; BAHATT DAR ; BLASENHEIM BARRY J ; BODEAU JOHN P ; BEARD NIGEL P ; APPLIED BIOSYSTEMS LLC ; LIFE TECHNOLOGIES CORP

**Assignee(s):** LIFE TECHNOLOGIES CARLSBAD CORP ; BANK OF AMERICA NA AS COLLATERAL AGENT ; BANK OF AMERICA NA COLLATERAL AGENT AS ; APPLIED BIOSYSTEMS INC ; KAO H ; LIFE TECHNOLOGIES CORP CARLSBAD

**Inventor(s):**(std)**:** BEARD NIGEL P ; BLASENHEIM BARRY ; BLASENHEIM BARRY J ; BODEAU JOHN ; BODEAU JOHN P ; BODNER KEVIN ; CAMILLO ALBERT L ; CARRILLO ALBERT ; CARRILLO ALBERT L ; AMIN YUSUF ; ANGELICA STEVE ; BAHATT DAR ; ERMAKOV SERGEY ; ERMAKOV SERGEY V ; FAWCETT ADRIAN ; GUNSTREAM STEPHEN J ; HARDING IAN ; HARDING IAN A ; HAYASHIBARA KATHLEEN C ; JONES BOB ; JONES JONES C ; FOCARACCI JULIO P ; GUERRA ROBERT ; JONES ROBERT C ; KAO H P ; KAO H PIN ; KARGER ACHIM ; LEHTO DENNIS A ; LI ROBIN ; LIM GARY ; LIU TIMOTHY ; LIVAK KENNETH ; LIVAK KENNETH J ; LU MIKE ; LU MIKE Y ; K LAU ALDRICH N ; KINNEY PATRICK D ; MACK JEROME A ; NGUYEN HOANG ; OLDHAM MARK ; OLDHAM MARK F ; REED MARK T ; REEVE VINCENT ; REEVE VINCENT M ; RUFF DAVID ; RUFF DAVID W ; SANDELL DON ; SANDELL DONALD ; SANDELL DONALD R ; SHANNON MARK ; SHANNON MARK E ; STAMP ARLENE ; STEVENS JUNCO F ; LAIRD HYLAND FIONA C ; OSTADAN OMEAD ; PATEL JAYNISH ; STEVENS JUNKO F ; TOMANEY AUSTIN ; TOMANEY AUSTIN B ; WOUDENBERG TIM ; WOUDENBERG TIMOTHY ; WOUDENBERG TIMOTHY M ; PRATT MARK R ; YAN TONY S ; YOUNG GREG

**Inventor(s):** REED MARK ; YAN TONY ; TOMANEY AUSTIN SAN FRANCISCO ; PRATT MARK ; LEHTO DENNIS ; STEVENS JUNKO ; OLDHAM MARK F LOS GATOS ; OLDHAM MARK LOS GATOS ; LAIRD HYLAND FIONA ; KAO H ; LU MIKE Y SAN JOSE ; MACK JEROME ; KINNEY PATRICK ; K LAU ALDRICH ; GUNSTREAM STEPHEN ; JONES

ROBERT ; HARDING IAN A SAN MATEO ; HAYASHIBARA KATHLEEN ; FAWCETT ADRIAN PLEASANTON ; FOCARACCI JULIO ; BEARD NIGEL ; CARRILLO ALBERT L REDWOOD CITY

**Agent(s):** WEBER BIRGIT DIPL BIOL DR RER NAT; WOEHLER CHRISTIAN; CRAMPHORN CONRAD ET AL; HARNESS DICKEY AND PIERCE PLC; STEVE ANGELICA; MILA KASAN PATENT DEPT APPLIED BIOSYSTEMS; KILYK AND BOWERSOX PLLC; INVITROGEN C O INTELLEVATE CORP; LIFE TECHNOLOGIES C O INTELLEVATE CORP; JEFFREY L; JONES ROBB PLLC

**Designated states:** AE AG AL AM AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

**International class (IPC 8–9):** B01J19/00 B01L11/00 B01L3/00 B01L3/02 B01L7/00 B01L9/00 B29C65/00 B29C65/02 B29C65/10 B32B1/08 B32B33/00 B32B37/00 B32B37/02 B65B3/04 B67C3/00 B81B1/00 C07H21/00 C12M1/00 C12M1/14 C12M1/22 C12M1/32 C12M1/34 C12M1/36 C12M1/38 C12M1/42 C12M3/00 C12N15/09 C12N15/10 C12P19/34 C12Q1/68 C40B30/00 C40B30/04 C40B30/10 C40B40/06 C40B60/12 G01J1/10 G01J1/42 G01J3/02 G01N1/10 G01N1/14 G01N15/06 G01N21/00 G01N21/03 G01N21/25 G01N21/63 G01N21/64 G01N31/00 G01N33/00 G01N33/48 G01N33/50 G01N33/68 G01N35/00 G01N35/02 G01N35/04 G01N37/00 G02B7/02 G06F15/16 G06F17/50 G06F19/00 G06F19/20 G06Q10/00 H01L27/146 H01L27/148 H04N5/217 H04N5/225 H04N5/357 H04N5/361 H04N5/367 H04N5/372 (Advanced/Invention);
B01L3/02 B01L7/00 B01L9/00 B01L99/00 C12Q1/68 G01N21/27 G01N35/00 G01N35/04 G01N35/10 (Advanced/Non–invention);
B01L3/00 B01L3/02 B29C65/00 B29C65/02 B29C65/10 B32B1/00 B32B33/00 B32B37/00 B32B37/02 B67C3/00 C12M1/00 C12M1/14 C12M1/26 C12M1/34 C12M1/36 C12M3/00 C12N15/09 C12P19/00 C12Q1/68 C40B30/10 G01J3/00 G01N15/06 G01N21/00 G01N21/25 G01N21/63 G01N21/64 G01N35/00 G01N37/00 G06F15/16 G06F17/50 H01L27/148 H04N5/217 (Core/Invention);
B01L7/00 (Core/Non–invention);
B01L C12N G01N G06F (Subclass/Invention)

**International class (IPC 1–7):** B01L3/00 C12M1/34 C12P19/34 C12Q1/68 G01N1/10 G01N21/03 G01N21/25 G01N33/00 G01N33/48 G01N33/50 G01N35/00 G06F17/50 G06F19/00

**CPC:** G01N35/04 B01L2200/0621 B01L2300/0654 B01L2300/0874 B01L2300/0887 C12Q1/6806 B01L3/50857 B01L7/525 B01L2200/027 G01N21/253 B01L2300/0819 C12Q1/6837 H04L51/28 H04L51/12 C12N15/1072 B01L2300/041 B01L2300/12 H04L67/02 G06F17/50 D03C19/005 D03J1/10 D05C15/26 D06P5/003 D06Q1/00 D21F1/0027 G06F2217/32 G06T11/001 H04N5/225 Y10T436/2575 B01L3/0262 B01L3/5085 B01L2200/026 B01L2200/0647 B01L3/0268 B01L3/5088 B01L2200/12 B01L2200/143 B01L2300/0816 B01L2400/0439 G01N35/1016 G01N2035/1034 Y10T436/10 G01N21/6486 G01N35/0099 G01N35/1002 G01N2035/00287 G01N2035/1039 Y10T156/171 Y10T156/1744 Y10T156/1052 Y10T428/14 Y10T428/1476 G01N2201/121 G01N2201/08 G01N2201/062 G01N2201/06113 H04N5/357 G06F19/20 C40B30/04 B01L2300/087 B01L2300/0809 B01L2400/082 B01L2200/142 B01L2300/021 B01L2300/1883 B01L3/545 B01L2200/14 B32B33/00 G01N33/48 G01N33/50 G01N2035/042 G06F19/00 G01N2035/00366 G01N21/6428 H04N5/361 H04N5/367 G01N35/1074 B01L2200/0684 G01N35/028 B01L3/0293 B01L3/5025 B01L3/5027 B01L3/502707 B01L3/502715 B01L3/502723 B01L3/50851 B01L3/50853 B01L7/52 B01L9/50 B01L9/523 B01L2200/021 B01L2200/025 B01L2200/0605 B01L2200/0642 B01L2300/022 B01L2300/044 B01L2300/046 B01L2300/0829 B01L2300/0851 B01L2300/0864 B01L2300/1805 B01L2400/0406 B01L2400/0409 B01L2400/0487 G01N21/274 G01N21/553 G01N21/6452 G01N2035/00148 G01N2035/00356 G01N2035/0405 G01N2035/0425 G01N2035/1037 B01L3/563 B01L2200/0689 B32B38/10 B32B2038/047 C12Q1/6816 G01N21/648 C12Q1/686 G01N21/27 G01N21/64

**European class:** B01L3/00C2D B01L3/00C6M6 B01L3/02D10 B01L3/02D6 B01L3/02H2 B01L3/5025 B01L3/5027 B01L3/5027B B01L3/5027C B01L3/5085 B01L3/50851 B01L3/50853 B01L3/50857 B01L3/563 B01L7/52 B29C65/48 B29C66/534 B29C66/81267 B29C66/81455 B29C66/8266 C12Q1/68A4 C12Q1/68D2C C12Q1/68D2C+545/113+545/101 C40B30/04 D03C19/00 D03J1/10 D05C15/26 D06P5/00T D06Q1/00 D21F1/00E G01N21/25B2 G01N21/64H G01N21/64P2 G01N21/64P8 G01N21/64R G01N33/68A G01N33/68A10 G01N33/68V2 G01N35/02P G01N35/04 G01N35/10C3 G01N35/10M5 G06F17/50 G06F19/20 G06T11/00C H04L12/58 H04L29/08N1 H04N5/361 H04N5/367 L01L200/02A L01L200/02C L01L200/02D L01L200/02D2 L01L200/06A L01L200/06D L01L200/06H L01L200/06J L01L200/06M L01L200/06N L01L200/12 L01L200/14B L01L200/14C L01L3/02D6 L01L3/02H2 L01L3/5025 L01L3/5027 L01L3/5027A L01L3/5027B L01L3/50851

L01L3/50853 L01L3/50857 L01L3/5088 L01L300/02A L01L300/02A2 L01L300/04A L01L300/04A6 L01L300/04B L01L300/06B6 L01L300/08B12 L01L300/08B4 L01L300/08B6 L01L300/08D2 L01L300/08E2 L01L300/08E8 L01L300/08F L01L300/12 L01L300/18A L01L300/18G L01L400/04F10U L01L400/04F2 L01L400/04F4 L01L400/04M8 L01L7/52 L01L7/525 L01L9/50 L01L9/523 L29C65/48B2B L29C65/48B2F M12Q1/68B10A M12Q1/68D4 S01N21/27E S01N21/55B2 S01N35/00C7C S01N35/00D7A S01N35/00E1 S01N35/00E1A S01N35/00R S01N35/02P S01N35/04A1B S01N35/04A4C S01N35/10A S01N35/10F4 S01N35/10F4A S01N35/10F4B S01N35/10M5 S06F217/32

**US class:** 1/1 141/1 141/130 141/1P 156/250 156/250S 156/499 156/499S 156/542 156/556 156/556S 250/208.1 250/208.100P 250/234 250/234P 250/252.1 250/370.08 250/453.11 250/453.110P 250/458.1 250/459.1 348/241 348/250 348/E05.081 348/E5.081 356/218 356/219 356/236 356/236P 356/243.1 356/243.100P 356/246 356/246P 356/307 356/317 356/318 356/414 356/414P 356/417 356/418 359/811 359/819 359/822 359/823 359/824 422/100 422/100P 422/100S 422/102 422/103 422/104 422/109 422/400 422/400P 422/400S 422/501 422/502 422/503 422/504 422/504P 422/507 422/509 422/509P 422/520 422/520S 422/521 422/521S 422/552 422/552P 422/63 422/63P 422/82.12 422/99 422/99P 422/99S 428/40.1 428/40.100 428/40.100P 428/41.8 428/41.800P 435/287.1 435/287.2 435/287.200 435/287.200S 435/287.9 435/288.4 435/288.7 435/289.1 435/294.1 435/303.1 435/303.100S 435/305.3 435/305.300P 435/6 435/6.1 435/6.100S 435/6.11 435/6.110P 435/6.110S 435/6.12 435/6.120P 435/6.14 435/6.140P 435/6.16 435/6.160P 435/6.18 435/6.180P 435/6.19 435/6.190P 435/6P 435/6S 435/91.1 435/91.100 435/91.100P 435/91.2 435/91.200 435/91.200P 435/91.200S 436/180 436/180P 436/180S 436/8 436/8P 506/12 506/12P 506/16 506/16S 506/37 506/38 506/39 506/39P 506/7 506/7P 506/9 506/9P 536/25.3 536/25.300 536/25.300S 702/19 702/19P 702/20 702/20P 702/20S 702/85 705/7.12 709/206

Classification Explorer

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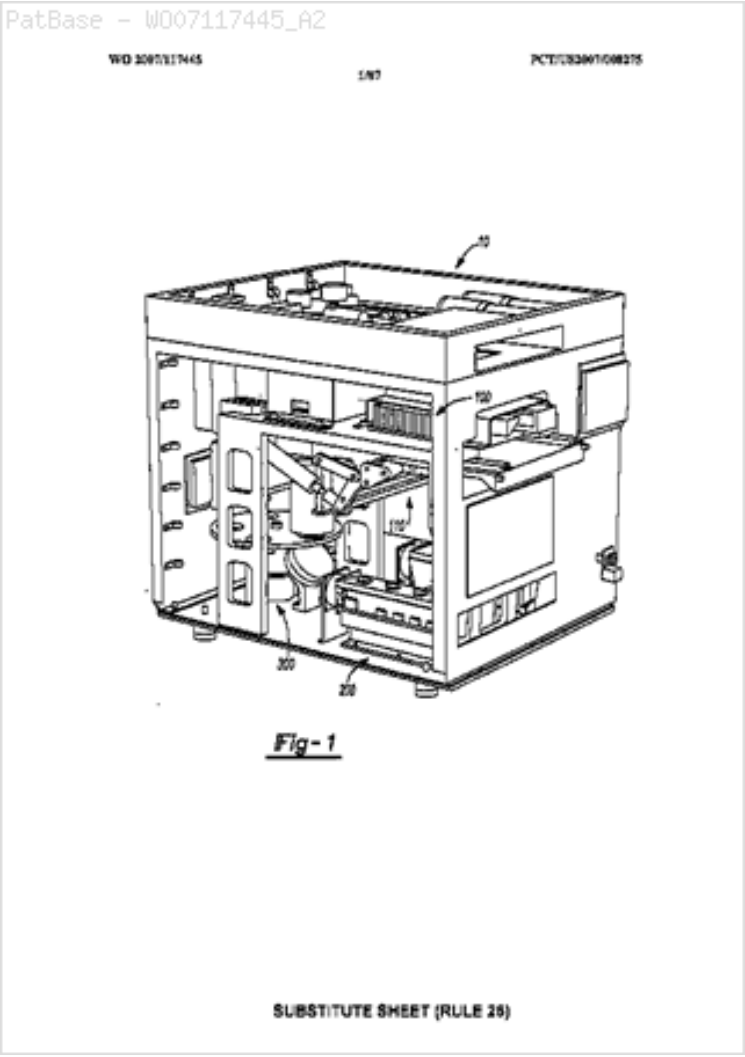
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**Abstract:**
Source: US2005112634A Methods for amplifying polynucleotides, e.g., by PCR, in a sample comprising polynucleotide targets present at very low concentration, comprising: (a) applying amplification reactants to the surface of a substrate comprising reaction spots, wherein the reactants comprise the sample and an amplification reagent; (b) forming a sealed reaction chamber, having a volume less than about 120 nanoliters, preferably less than about 20 nanoliters, over each of said reaction spots; and (c) thermal cycling the substrate and reactants. In one embodiment, the forming step comprises loading a sealing fluid, e.g., mineral oil, on the surface so as to cover the reaction spots. The present invention also provides microplates, comprising: (a) a substrate having at least about 10,000 reaction spots, each comprising a primer and a droplet of reagent having a volume less than about 120 nanoliters, preferably less then about 20 nanoliters; and (b) a sealing liquid isolating each of the spots.



0) US2008247914A – SAMPLE PREPARATION SYSTEM AND METHOD FOR PROCES...

**77) Family number: 42270874** (US2008247914A) © PatBase

**Title:** SAMPLE PREPARATION SYSTEM AND METHOD FOR PROCESSING CLINICAL SPECIMENS

**Priority:** US20070910565P 20070406 US20080062950 20080404 US20080113855P 20081112 US20080122621P 20081215 US20090183857P 20090603 US20080062950 20080408 US20090185081P 20090608 US20090242671P 20090915 US20090588304 20091009 US20090588306 20091009 US20090588304P 20091009 US20090588306P 20091009 US20090588305 20091009 US20090242628P 20090915 US20090617485 20091112 WO2009US64236 20091112 WO2009US64258 20091112 WO2009US64268 20091112 US20090617491 20091112 US20140229156 20140328

**Family:**

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**Designated states:** AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

**International class (IPC 8–9):** B01L3/02 B01L9/06 B65D1/36 B65G49/05 C12M1/34 C12M3/00 C12Q1/02 C12Q1/70 G01N1/00 G01N1/10 G01N1/12 G01N1/18 G01N21/00 G01N21/01 G01N21/03 G01N21/31 G01N21/49 G01N21/51 G01N21/59 G01N33/00 G01N33/487 G01N35/00 G01N35/02 G01N35/04 G06F7/00 G06N5/02 (Advanced/Invention);
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G01N21/01 G01N21/49 G01N35/00 (Core/Non–invention)

**CPC:** B01L9/50 Y10S435/809 Y10S436/809 B01L3/5082 B01L2200/021 B01L2300/021 B01L2300/022 G01N35/028 B01L2200/023 B01L9/06 B01L2200/025 B01L2300/0829 G01N21/51 G01N35/00594 G01N2015/0693 G01N2035/00534 G01N35/026 G01N35/1079 G01N35/0099 G01N35/04 G01N2035/00524 G01N2035/0405 G01N2035/041 Y10T436/11 Y10T436/113332 Y10T436/114165 Y10T436/25 Y10T436/25125 Y10T436/2525 Y10T436/25375 Y10T436/255 Y10T436/2575

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**US class:** 1/1 206/139 206/203 206/483 206/564 250/432R 356/237.1 356/246 356/246S 356/339 356/440 356/440S 356/442 356/442P 356/442S 422/100 422/100P 422/100S 422/400 422/400P 422/400S 422/50 422/500 422/511 422/560 422/561 422/562 422/566 422/63 422/64 422/65 422/65S 422/67 422/67S 422/82.09 435/287.2 435/287.200S 435/5 435/5P 435/809 436/174 436/175 436/176 436/177 436/178 436/180 436/43 436/47 436/47P 436/48 436/809 700/214 700/214S 700/218 700/218S 700/228 700/228S 706/54 706/54P 73/863.01 73/863.010S 73/863.81 73/863.810P 73/864.63 73/864.630S

Classification Explorer

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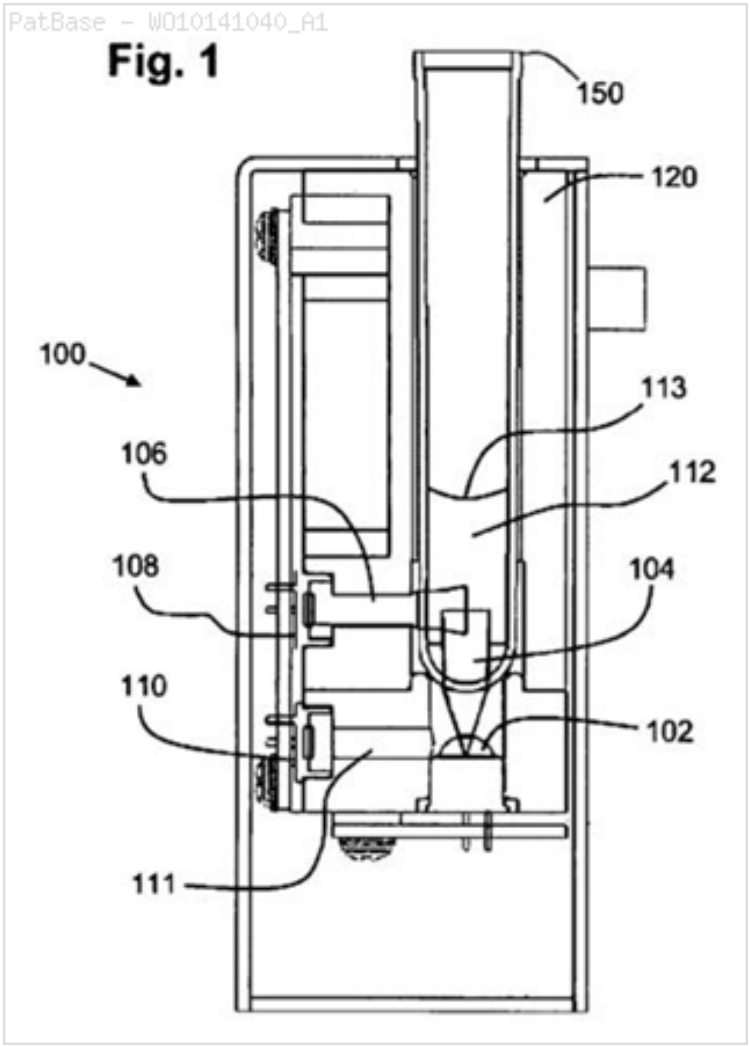
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**Forward Citations:** WO16137756, WO15190132, WO15118076, WO15088201, WO15069547, WO14071214, WO14066604, WO14066222, WO14066221, WO13174961, WO13174961, WO13170204, WO13148525, WO13109980, WO13106269, WO13106269, WO13070754, WO13019346, WO13004674, WO10056903, WO10056884, USD768873, USD742027, USD712205, USD692162, USD669191, USD665095, USD612276, US9645143, US9632103, US9632102, US9632100, US9618139, US9605303, US9592508, US9588109, US9546391, US9540675, US9528142, US9519000, US9513303, US9506943, US9500571, US9482684, US9481903, US9480983, US9476895, US9476806, US9468587, US9464981, US9446418, US9435793, US9435718, US9422593, US9410146, US9400285, US9400234, US9395379, US9388453, US9381524, US9377479, US9352323, US9347586, US9335338, US9335336, US9333499, US9310281, US9285382, US9274132, US9274032, US9268915, US9260763, US9259734, US9250229, US9242250, US9238223, US9227323, US9222954, US9217143, US9207251, US9199755, US9186677, US9171279, US9164019, US9140715, US9140632, US9133497, US9115410, US9110046, US9086396, US9080207, US9051604, US9046506, US9046455, US9034575, US9008373, US8996320, US8973736, US8962308, US8958072, US8956570, US8935001, US8932541, US8901287, US8894947, US8888362, US8883490, US8877507, US8877436, US8840848, US8829473, US8812329, US8765076, US8735564, US8734733, US8719053, US8710211, US8709787, US8703492, US8703069, US8672219, US8662392, US8617905, US8594836, US8562909, US8557973, US8542353, US8534456, US8501115, US8440149, US8430247, US8420015, US8415103, US8411262, US8389219, US8357538, US8355132, US8324372, US8323900, US8288520, US8287820, US8216530, US8182763, US8142740, US8133671, US8105783, US8088616, US8084271, US7985375, US7883265, US7879546, US7829691, US2016139166, US2016077118, US2016054340, US2015093290, US2014374414, US2014373642, US2014363896, US2014363355, US2014331618, US2014326082, US2014305227, US2014296089, US2014224382, US2014094969, US2014064902, US2014057347, US2014050619, US2014034854, US2013274913, US2013215426, US2013137166, US2013137109, US2013136670, US2013082099, US2013065797, US2013061693, US2013028790, US2012321516, US2012318076, US2012212729, US2012128534, US2012118954, US2012081699, US2012058900, US2012058479, US2011217705, US2011097708, US2011000763, US2010225920, US2010205139, US2010152890, US2010132438, US2010129789, US2010126286, US2010113288, US2009298187, US2009185188, US2009162851, US2009035825, US2007251885, US2007196909, US2007154884, US2005038676, TWI513967, TWI474866, TWI442884, KR20140065406, KR101667380, JP2015511717, ITRE20130097, EP3098608, EP3052927, EP3052927, EP2908951, EP2753914, EP2538225, EP2515118, EP2410333, DE102014108689, DE102012208707, CN104459174, CN104394990, CN104394990, CN104335052, CN104335050, CN104204794, CN104062448, CN104040352, CN104040352, CN103988064, CN103857464, CN103857464, CN103123317, CN103123317, CN103028452, CN103028452, CN102841212, CN102472760, AU2013239894, AU2012305682,

**Abstract:**
Source: US2008247914A A system and method for automated handling of vials containing liquid medical specimens is disclosed. The robotic system processes the specimens for further downstream molecular analysis. The processing comprises automated vial cap removal, pipetting of the vial contents, transfer of the vial contents to a destination tray such as a multiwell plate, and recapping of the vial.



0) US2017121077A – DRINKING VESSELS INCLUDING DEVICES FOR PROVIDIN...

**78) Family number: 65565747** (US2017121077A) © PatBase

**Title:** DRINKING VESSELS INCLUDING DEVICES FOR PROVIDING A MIXED LIQUID THEREFROM

**Priority:** US20150926315 20151029

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| US2017121077 AA | 20170504 | US20150926315 | 20151029 |
| US9650189 BA | 20170516 | US20150926315 | 20151029 |

**Probable Assignee:** TERVIS TUMBLER CO

**Assignee(s):**(std)**:** TERVIS TUMBLER CO

**Inventor(s):**(std)**:** BROWN ERIK STEVEN ; LAWSON MARK GRISWOLD

**Agent(s):** CAESAR RIVISE PC

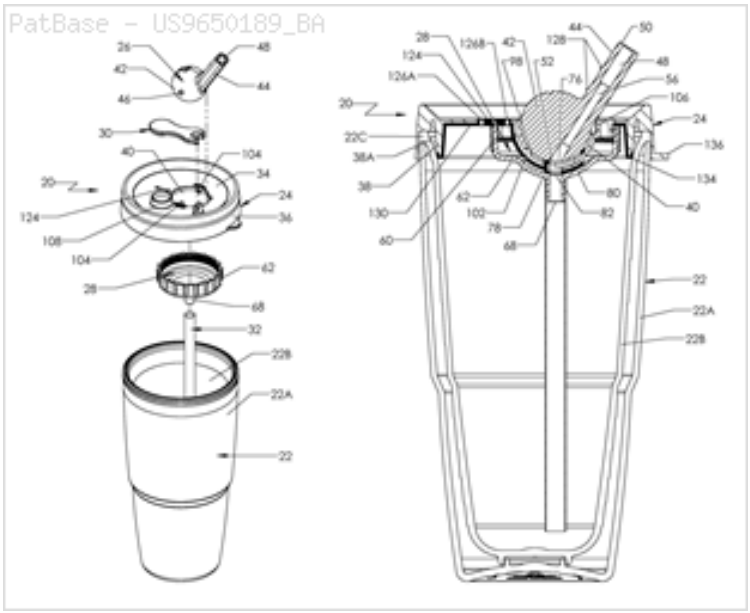
**International class (IPC 8–9):** A47G19/22 B65D47/06 B65D47/12 B65D47/32 B65D51/28 (Advanced/Invention)

**CPC:** B65D51/2807 A47G19/2272 B65D47/12 B65D47/32 B65D47/065

Classification Explorer

**Cited documents:** US8672174 BA, US8668106 BA, US8657158 BA, US8413844 BB, US8230777 BB, US8191727 BB, US8167174 BB, US7299936 BB, US7172095 BB, US6372270 BA, US5615809 A, US5477994 A, US5065909 A, US2014230659 AA, US2012305559 AA, US2010170902 AA, US2006021996 AA, US2003072850 AA,

**Abstract:**
Source: US2017121077A Disclosed are lid assemblies for use on a vessel holding a base liquid. They include an agent chamber for holding a liquid agent and a pivotable spout. The spout includes a base liquid inlet port and a liquid agent inlet port, respective passageways connected to those ports and terminating at a mixing space. The agent chamber includes plural different sized metering orifices, orifice configured to be brought into communication with the liquid agent port of the spout when the spout is pivoted to any one of plural angular positions to provide a metered amount of the liquid agent into the spout for mixing with the base liquid in the mixing space when the user sucks on the spout. The base liquid is drawn into the spout from the interior of the vessel via a base liquid metering port that is brought into communication with the base liquid inlet port when the spout is in any one of those plural angular positions.



0) US5291757A – DEVICE FOR HEAT TREATMENT AND/OR HUMIDIFICATION...

**79) Family number: 3009911** (US5291757A) © PatBase

**Title:** Device for heat treatment and/or humidification of spools, cops and cones

**Priority:** CH19890004631 19891222 WO1990CH00289 19901220

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| AT114175 E | 19941215 | AT19900900150T | 19901220 |
| AU199168954 A1 | 19910724 | AU19910068954 | 19901220 |
| AU642689 B2 | 19931028 | AU19910068954 | 19901220 |
| BRPI9007137 A | 19911210 | BR1990PI07137 | 19901220 |
| CA2045514 AA | 19910623 | CA19902045514 | 19901220 |
| CA2045514 C | 20020903 | CA19902045514 | 19901220 |
| CH680458 A | 19920831 | CH19890004631 | 19891222 |
| DE59007722 D1 | 19941222 | DE19905007722 | 19901220 |
| DK0460142 T3 | 19950123 | DK19900900150T | 19901220 |
| EP0460142 A1 | 19911211 | EP19910900150 | 19901220 |
| EP0460142 B1 | 19941117 | EP19910900150 | 19901220 |
| ES2064983 T3 | 19950201 | ES19910900150T | 19901220 |
| HK30196 A | 19960223 | HK19960000301 | 19960215 |
| HU215982 B | 19990329 | HU19910002235 | 19901220 |
| HU62346 A2 | 19930428 | HU19900002235 | 19901220 |
| HU62346 A2 | 19930428 | HU19910002235 | 19901220 |
| JP1891976 C3 | 19941207 | JP19910500914 | 19901220 |
| JP4503696 T2 | 19920702 | JP19910500914T | 19901220 |
| JP6015737 B4 | 19940302 | JP19910500914 | 19901220 |
| JP6015737 B4 | 19940302 | JP19900500914 | 19901220 |
| KR100184285 B1 | 19990501 | KR19910070959 | 19910821 |
| RU2028395 C1 | 19950209 | SU19915001832 | 19910821 |
| US5291757 A | 19940308 | US19910741439 | 19910806 |
| WO9110002 A1 | 19910711 | WO1990CH00289 | 19901220 |

**Probable Assignee:** XORELLA AG

**Assignee(s):**(std)**:** KSORELLA AG ; WANGER FREDDY ; XORELLA AG ; XORELLA AG WETTINGEN

**Assignee(s):** XORELLA AG CH ; IKUSORERA AG ; XORELLA WETTINGEN AG ; XORELLA AG WETTINGEN CH

**Inventor(s):**(std)**:** FREDDI VANGER ; WANGER FREDDY

**Inventor(s):** WANGER FREDDY CH ; WANGER FREDDY CH 5452 OBERROHRDORF CH ; FREDDY WANGER ; UANGERU FURETSUDEI

**Agent(s):** GRIFFITH HACK

**Designated states:** AT AU BE BR CA CH DE DK ES FR GB GR HU IT JP KP KR LI LU NL SE SU US

**International class** (IPC 8–9)**:** D01H13/28 D01H13/30 D06B1/02 D06B21/02 D06B23/18 D06B3/09 D06B5/16 (Advanced/Invention); D01H13/00 D06B1/00 D06B21/00 D06B23/00 D06B3/00 D06B5/00 (Core/Invention)

**International class** (IPC 1–7)**:** D01H13/28 D01H13/30 D06B1/02 D06B21/02 D06B23/14 D06B23/18 D06B3/04 D06B3/09 D06B5/16

**CPC:** D01H13/306 D06B5/16

**European class:** D01H13/30C D06B5/16

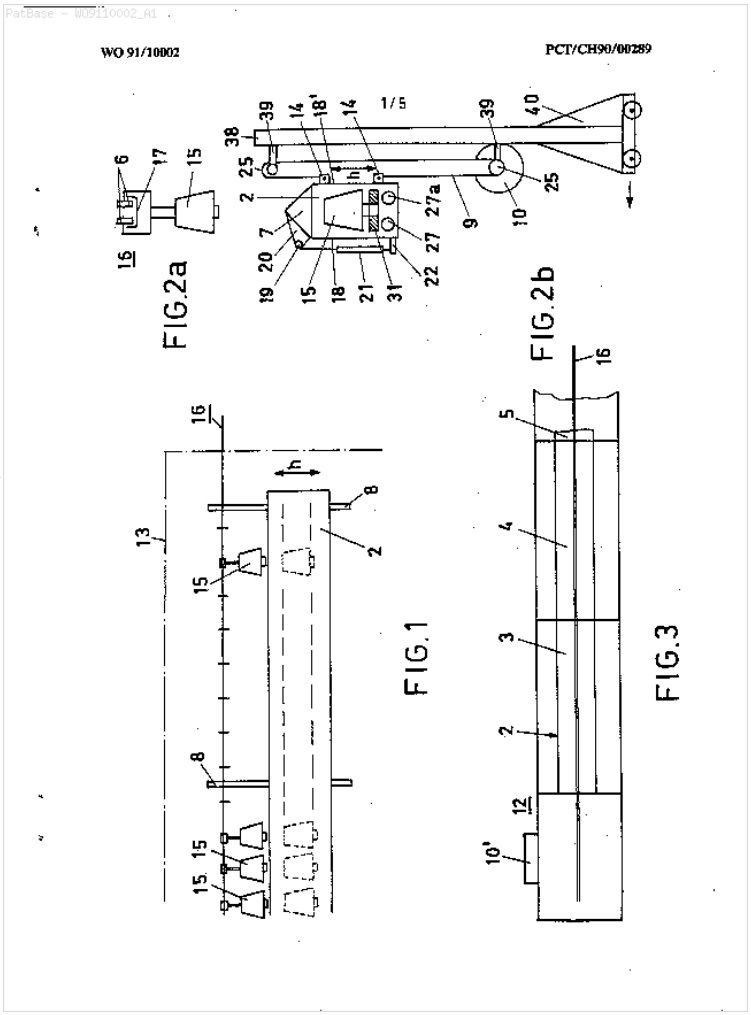
**US class:** 68/5.00C 68/5C 68/5D

Classification Explorer

**Cited documents:** US4953368 A, US4893403 A, US488267 A, US2915230 A, US1941087 A, US1128451 A, US1103806 A, FR1396869 A, FR1087510 A, DE3508942 A1, AT256017 B,

**Forward Citations:** WO9532684, WO9405844, US7846373, US2011095454, US2007101606, US2007094887, TR25472, EP1333117, DE4317486, DE102007024205, DE102007024205, CH687282,

**Abstract:**
Source: US5291757A PCT No. PCT/CH90/00289 Sec. 371 Date Aug. 6, 1991 Sec. 102(e) Date Aug. 6, 1991 PCT Filed Dec. 20, 1990 PCT Pub. No. WO91/10002 PCT Pub. Date Jul. 11, 1991.A device for heat treatment, in particular for steaming of spools, cops and cones, based on an elongated, height−adjustable steaming vessel (2), arranged below, and parallel to, spools (15) suspended in a row. By being moved into the steaming vessel (2), the spools (15) can be unlatched and, after closing of a lid (7), heat treated. Alternatively, a closed, conduit−like steaming vessel can be included in the material flow of the spools, permitting steaming in the throughfeed mode. The dwell times of the cops after steaming are largely predeterminable. Also, the space requirements of the equipment are minimal.



0) US2003022365A – ARRANGEMENT FOR TREATING CELLS IN BIOLOGY OR GE...

**80) Family number: 17029134** (US2003022365A) © PatBase

**Title:** ARRANGEMENT FOR TREATING CELLS IN BIOLOGY OR GENETIC ENGINEERING

**Priority:** DE19982017223U 19980924 DE19995003586 19990913 US20020252804 20020923 US20010787948 20010323 EP19990947330 19990913 EP19980120337 19981027 WO1999EP06762 19990913

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| AT228563 E | 20021215 | AT19990947330T | 19990913 |
| AU199960822 A1 | 20000410 | AU19990060822 | 19990913 |
| AU199960822 A5 | 20000410 | AU19990060822 | 19990913 |
| DE29817223 U1 | 19981119 | DE19982017223U | 19980924 |
| DE59903586 D1 | 20030109 | DE19995003586 | 19990913 |
| EP0999266 A1 | 20000510 | EP19980120337 | 19981027 |
| EP1115839 A1 | 20010718 | EP19990947330 | 19990913 |
| EP1115839 B1 | 20021127 | EP19990947330 | 19990913 |
| US2003022365 AA | 20030130 | US20020252804 | 20020923 |
| US6468788 BA | 20021022 | US20010787948 | 20010323 |
| WO0017315 A1 | 20000330 | WO1999EP06762 | 19990913 |

**Probable Assignee:** MAROTZKI STEFAN DR

**Assignee(s):**(std)**:** MAROTZKI STEFAN ; MAROTZKI STEFAN DR ; STEFAN MAROTZKI

**Assignee(s):** MAROTZKI STEFAN DR 25436 TORNESCH DE

**Inventor(s):**(std)**:** MAROTZKI DR ; MAROTZKI STEFAN ; MAROTZKI STEFAN DR ; STEFAN MAROTZKI

**Designated states:** AT AU BE CA CH CN CY DE DK ES FI FR GB GR IE IT JP KR LI LU MC NL PT RU SE US

**International class** (IPC 8–9)**:** C12M1/22 (Advanced/Invention); C12M1/22 (Core/Invention)

**International class** (IPC 1–7)**:** B01L3/00 C12M1/00 C12M1/22 C12M3/00

**CPC:** C12M23/46 C12M25/02 C12M23/38 C12M23/10

**European class:** C12M1/22

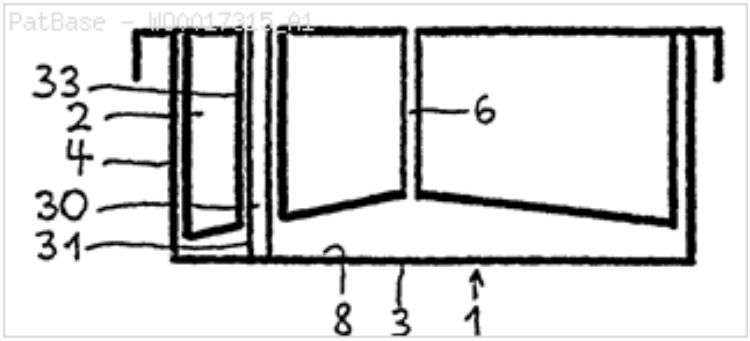
**US class:** 435/288.3 435/305.1 435/305.2 435/305.3 435/305.300S 435/305.4 435/305.400P

Classification Explorer

**Cited documents:** US6468788 BA, US6261523 BA, US4634676 A, US4321330 A, US4294924 A, US3745091 A, US2348448 A, FR2698375 A1, DE479304 A, DE19624917 A1,

**Forward Citations:** WO09105371, WO09018799, WO08113444, USD644119, USD644118, US9493733, US9441192, US9410114, US9255243, US9200245, US9145540, US8999703, US8697443, US8597597, US8518637, US8481325, US8288120, US8043838, US8038964, US8003377, US7910361, US7888110, US7635575, US7544805, US7405071, US7403647, US2015203803, US2011143388, US2010255576, US2010203574, US2009272748, US2009209017, US2008193596, US2008160502, US2008076170, US2008063251, US2007222796, US2006238548, US2006223999, US2006154233, US2006057557, US2006019375, US2005239195, US2005187245, US2005064524, US2004214313, US2003212429, US2003211458, US2003159946, US2003022365, JP2011512161, GB2477029, GB2477029, EP2394725, EP2274413, EP2274413, EP1539925, EP1539922, EP1539921, DE10128810,

**Abstract:**
Source: US2003022365A A device for receiving a liquid containing a cell culture includes at least one vessel having a base plate and walls forming an enclosure. A cover is lowerable into the vessel to displace air and, where appropriate, excess liquid. The cover has a liquid admission opening and a liquid discharge opening.



**81) Family number: 32311047** (US2006235031A) © PatBase

**Title:** 6,6–BICYCLIC RING SUBSTITUTED HETEROBICYCLIC PROTEIN KINASE INHIBITORS

**Priority:**

| | | | | | |
|---|---|---|---|---|---|
| EP20050742128 | 20050331 | EP20090156987 | 20050331 | JP20070506493 | 20050331 |
| US20050095162 | 20050331 | US20040559250 | 20040402 | US20080244947 | 20081003 |
| US20090540047 | 20090812 | US20040559250P | 20040402 | US20110308694 | 20111201 |
| WO2005US10606 | 20050331 | US20120446629 | 20120413 | US20130739442 | 20130111 |

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| AP200603795 A0 | 20061031 | AP20060003795 | 20050331 |
| AP2139 A | 20100821 | AP20060003795 | 20050331 |
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| AU2005230818 BB | 20101125 | AU20050230818 | 20050331 |
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| ES2328833 T3 | 20091118 | ES20050742128T | 20050331 |
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| HR20090495 T1 | 20091031 | HR20090000495 | 20090916 |
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| US2009118499 AA | 20090507 | US20080244947 | 20081003 | |
| US2009325928 AA | 20091231 | US20090540047 | 20090812 | |
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| US2012196847 AA | 20120802 | US20120446629 | 20120413 | |
| US2013190496 AA | 20130725 | US20130739442 | 20130111 | |
| US7534797 BB | 20090519 | US20050095162 | 20050331 | |
| US7820662 BB | 20101026 | US20080244947 | 20081003 | |
| US8101613 BB | 20120124 | US20090540047 | 20090812 | |
| US8367826 BB | 20130205 | US20110308694 | 20111201 | |
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| VN7676 A1 | 20090625 | VN20060001754 | 20050331 | |
| WO05097800 A1 | 20051020 | WO2005US10606 | 20050331 | |

**Probable Assignee:** OSI PHARMACEUTICALS LLC

**Assignee(s):**(std)**:** ARNOLD LEE D ; CESARIO CARA ; COATE HEATHER ; CREW ANDREW P ; CREW ANDREW PHILIP ; DONG HANQING ; OSI PHARM INC ; FOREMAN KENNETH ; HONDA AYAKO ; LAUFER RADOSLAW ; LI AN HU ; MULVIHILL KRISTEN MICHELLE ; MULVIHILL MARK JOSEPH ; NIGRO ANTHONY ; MULVIHILL KRISTEN M ; MULVIHILL MARK J ; OSI FARMAS JUTIKALZ INK ; NIGRO ANTHONY I ; PANICKER BIJOY ; STEINIG ARNO G ; SUN YINGCHUAN ; WENG QINGHUA ; WERNER DOUGLAS S ; WYLE MICHAEL J ; ZHANG TAO ; WENG QINGUA ; OSI PHARMACEUTICALS ; OSI PHARMACEUTICALS LLC ; STEINIG AMO G ; WENG QUINGHUA

**Assignee(s):** OSI PHARMACEUTICALS INC

**Inventor(s):**(std)**:** AN HU LI ; AYAKO HONDA ; BIJOY PANICKER ; CARA CESARIO ; CESARIO CARA ; CHZHAN TAO ; COATE HEATHER ; CREW ANDREW ; CREW ANDREW P ; CREW ANDREW PHILIP ; CREW ANDREW PHILLIP ; DONG HAN QING ; ARNOL D LI D ; ARNOLD LEE ; ARNOLD LEE D ; ARNOLD LEE D COATE HEATHER CRE ; DONG HANGING ; DONG HANQING ; HANQING DONG ; HEATHER COATE ; HONDA AYAKO ; INNOCENZO NIGRO ANTHONY ; JOSEPH MULVIHILL MARK ; KENNETH FOREMAN ; KHONDA AJAKO ; KOUT KHITER ; ARNOLD LEE DANIEL ; DUN KHAN TSIN ; FOREMAN KENNETH ; FORMAN KENNET ; KRJU EHNDRJU FILIP ; LAUFER RADOSAW ; LAUFER RADOSLAV ; LAUFER RADOSLAW ; LI AN HU ; LI AN KHU ; MALVIKHILL KRISTEN MISHEL ; MICHAEL WYLE ; MICHELLE MULVIHILL KRISTEN ; MULVIHILL KRISTEN ; MULVIHILL KRISTEN M ; MULVIHILL KRISTEN MICHELE ; MULVIHILL KRISTEN MICHELLE ; MULVIHILL MARK ; MULVIHILL MARK J ; MULVIHILL MARK JOSEPH ; NAJGRO EHNTONI ; NIGRO ANTHONY ; NIGRO ANTHONY I ; NIGRO ANTHONY INNOCENZO ; PANICKER BIJOY ; PANIKER BIDZHOJ ; PHILIP CREW ANDREW ; QINGHUA WENG ; MALVIKHILL MARK DZHOZEF ; RADOSLOW LAUFER ; SESARIO KARA ; SHTAJNIG ARNO G ; STEINIG AMO G ; STEINIG ARNO ; STEINIG ARNO G ; SUN INCHUAN ; SUN YING CHUAN ; SUN YINGCHUAAN ; SUN YINGCHUAN ; TAO ZHANG ; UAJL MAJKL DZH ; WENG QING HUA ; WENG QINGHUA ; WENG QINGUA ; WENG QUINGHUA ; WERNER DOUGLAS ; WERNER DOUGLAS S ; WYLE MICHAEL ; WYLE MICHAEL J ; YINGCHUAN HANG TAO CESARIO CAR ; YINGCHUAN SUN ; ZHANG TAO ; VEHN TSINKHUA ; VERNER DUGLAS S

**Inventor(s):** WYLE J MICHAEL ; SUN' INCHUAN' ; MARK JOSEPH MULVIHILL ; MICHAEL J WYLE ; RADOSLAW LAUFER ; MALVIKHILL KRISTEN MISHEL' ; LI AN'–KHU ; LAUFER RADOSLOW ; LEE D ARNOLD ; LAIFER RADOSLAW ; HANG TAO CESARIO CARA SUN YINGCHUAN ; DUN KHAN'TSIN ; ARNOL'D LI D. ; KRISTEN MICHELLE MULVIHILL ; DOUGLAS S WERNER ; ARNOLD LEE D COATE HEATHER CREW ANDREW P DONG HANQ ; DONG HAN QUING ; ANDREW PHILIP CREW ; ANTHONY INNOCENZO NIGRO ;

ANTHONY NIGRO ; ARNO G STEINIG

**Agent(s):** SPRUSON AND FERGUSON; CASSAN MACLEAN; BLAKEY ALISON JANE; HAILE ALISON VICTORIA; REINHOLD COHN AND PARTNERS; KIM T NGUYEN SUITE 110; OSI PHARMACEUTICALS INC; ASTELLAS US LLC; GUYAN

**Designated states:** AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

**International class (IPC 8–9):** A01N43/58 A01N43/60 A01N43/64 A01N43/90 A61K31/437 A61K31/4375 A61K31/495 A61K31/4965 A61K31/4985 A61K31/50 A61K31/5025 A61K31/517 A61K31/519 A61K31/52 A61K31/53 A61K31/5377 A61K31/541 A61K31/551 A61P1/04 A61P1/16 A61P11/00 A61P11/06 A61P13/12 A61P15/00 A61P15/08 A61P17/02 A61P17/06 A61P19/02 A61P25/00 A61P27/02 A61P27/06 A61P27/10 A61P29/00 A61P3/10 A61P31/04 A61P31/12 A61P31/18 A61P31/22 A61P33/02 A61P35/00 A61P35/02 A61P35/04 A61P37/02 A61P37/04 A61P37/06 A61P37/08 A61P43/00 A61P5/14 A61P7/02 A61P7/06 A61P9/00 A61P9/08 A61P9/10 C07D401/04 C07D471/00 C07D471/04 C07D487/00 C07D487/04 C07D491/00 C07D495/00 C07D497/00 C07F5/02 (Advanced/Invention);
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A61K31/00 A61K36/00 A61P11/00 A61P17/00 A61P25/00 A61P35/00 C07D471/00 C07D487/00 (Core/Invention);
A61K31/4985 A61P35/00 C07D487/04 (Core/Non–invention);
A61K A61P C07D (Subclass/Invention)

**International class (IPC 1–7):** A61K31/437 A61K31/4985 A61K31/5025 A61K31/519 A61K31/53 A61P11/06 A61P17/06 A61P25/00 A61P35/00 C07D471/04 C07D487/04

**CPC:** C07F5/025 C07D471/04 C07D487/04

**European class:** C07D471/04 C07D487/04

**US class:** 514/210.21 514/210.210P 514/218 514/218S 514/233.2 514/233.200S 514/243 514/243S 514/249 514/249S 514/255.05 514/262.1 514/263.2 514/263.200P 514/265.1 514/265.100S 540/575 540/575S 544/117 544/117S 544/184 544/184S 544/262 544/268 544/268S 544/280 544/280S 544/284 544/284S 544/350 544/350P 544/350S 544/62 544/62P 546/13 546/13S

Classification Explorer

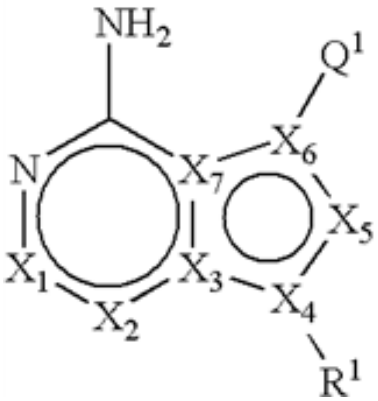
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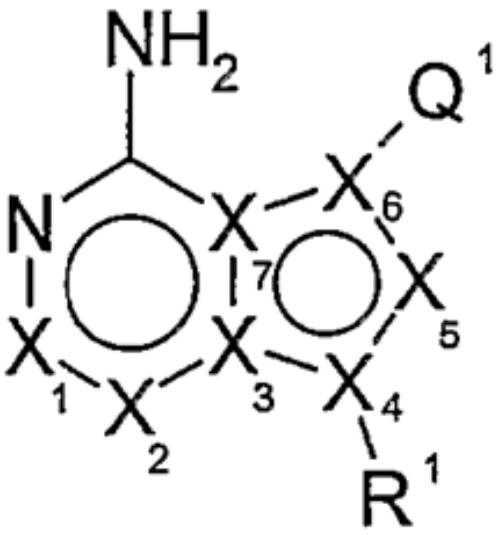
**Abstract:**
Source: US2006235031A Compounds of the formula

I




- and pharmaceutically acceptable salts thereof, wherein $X_1$, $X_2$, $X_3$, $X_4$, $X_5$, $X_6$, $X_7$, $R^1$, and $Q^1$ are defined herein, inhibit the IGF−1R enzyme and are useful for the treatment and/or prevention of hyperproliferative diseases such as cancer, inflammation, psoriasis, allergy/asthma, disease and conditions of the immune system, disease and conditions of the central nervous system.

PatBase - WO05097800_A1



(I)

0) US2008145479A – WINE FERMENTATION VESSEL WITH LEES CONTAINMENT ...

**82) Family number: 41933425** (US2008145479A) © PatBase

**Title:** WINE FERMENTATION VESSEL WITH LEES CONTAINMENT APPARATUS

**Priority:** CA20072615132 20071217 US20060875182P 20061215 US20070957937 20071217

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| CA2615132 AA | 20080615 | CA20072615132 | 20071217 |
| EP1961804 A1 | 20080827 | EP20070024407 | 20071217 |
| US2008145479 AA | 20080619 | US20070957937 | 20071217 |
| US8015915 BB | 20110913 | US20070957937 | 20071217 |

**Probable Assignee:** VINECO INT PRODUCTS LTD

**Assignee(s):**(std)**:** 4384814 CANADA INC ; POISSANT PHILIP L ; GLOBAL VINTNERS INC

**Assignee(s):** WINEXPERT INC ; GLOBAL VINTNERS INC VITICULTEURS GLOBAL INC ; VINECO INT ; VINECO INT PRODUCTS LTD ; 1736581 ONTARIO INC ; 1773008 ONTARIO INC ; 4384806 CANADA INC

**Inventor(s):**(std)**:** POISSANT PHILLIP L ; POISSANT PHILIP L

**Agent(s):** RIDOUT AND MAYBEE LLP; STROBEL WOLFGANG ET AL; BROWN RUDNICK BERLACK AND ISRAELS LLP; BROWN RUDNICK LLP; MARK S; LILLIAN R

**Designated states:** AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL PL PT RO RS SE SI SK TR

**International class** (IPC 8–9)**:** C12C11/00 C12C11/11 C12C13/00 C12C13/10 C12G1/00 C12G1/02 C12G1/036 C12H1/02 (Advanced/Invention); C12G1/00 C12H1/00 (Core/Invention)

**CPC:** C12C11/006 C12C13/10 C12G1/0206 C12G2200/31 C12H1/02

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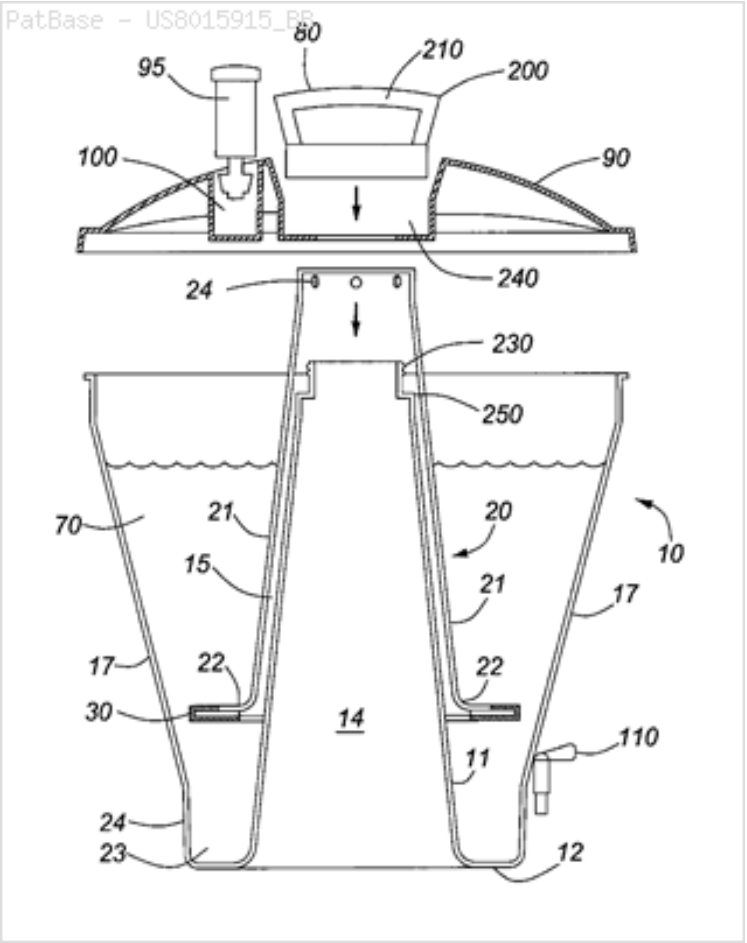
**US class:** 426/12 426/12S 426/15 426/15P 99/277.1 99/277.100S

Classification Explorer

**Cited documents:** WO05051150 A1, USD489930 S1, US5020679 A, US4821764 A, US4164902 A, US3766711 A, US3760711 A, US36478 A, US3570091 A, US3565102 A, US3519014 A, US3476138 A, US3467132 A, US3455327 A, US3431936 A, US3301660 A, US3301560 A, US3115150 A, US3115149 A, US3076574 A, US2008102160 AA, US2005284884 AA, US193508 A, US1815501 A, US1381598 A, US1183048 A, JP9308385 A2, GB2215230 A1, GB2195262 A1, GB2157314 A1, DE20211517 U1, CA2501570 AA, CA2227023 AA,

**Forward Citations:** WO14123953, WO10130012, USD612656, US9611452, US9260682, ITAR20080037, CN104403862, AU2010201943,

**Abstract:**
Source: US2008145479A There is provided a fermentation apparatus that allows the separation of a wine, beer or other brewed or fermented beverage from its lees using a single container. The vessel can be used in wine making operation and is constructed so that the lees that settle out during fermentation may be mechanically trapped at the bottom of the vessel and the wine then removed, typically through a spigot, without contamination by the entrapped lees.



0) US2001008241A – LIMITED FLOW DEVICE

**83) Family number: 28132264** (US2001008241A) © PatBase

**Title:** Limited flow device

**Priority:** US19980098144P 19980827 US19990384296 19990826 WO1999US19495 19990826 US20010801997 20010308

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| AU199956930 A1 | 20000321 | AU19990056930 | 19990826 |
| AU199956930 A5 | 20000321 | AU19990056930 | 19990826 |
| CA2341877 AA | 20010227 | CA19992341877 | 19990826 |
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| US6264058 BA | 20010724 | US19990384296 | 19990826 |
| WO0011992 A1 | 20000309 | WO1999US19495 | 19990826 |

**Probable Assignee:** RELIANT MEDICAL PRODUCTS INC A DELAWARE CORPORATION

**Assignee(s):**(std)**:** JERRY PORTER ; PORTER BARBARA Y ; PORTER JERRY

**Assignee(s):** RELIANT MEDICAL PRODUCTS INC ; RELIANT MEDICAL PRODUCTS INC (A DELAWARE CORPORATI ; RELIANT MEDICAL PRODUCTS INC (A DELAWARE CORPORATION) ; RELIANT MEDICAL PRODUCTS INC A DELAWARE CORPORATION ; COFFEY PATRICK W ; COFFEY PATRICK W O COURT SQUARECHARLOTTESVILLE VIR ; GALLOWAY BRUCE

**Inventor(s):**(std)**:** JERRY PORTER ; PORTER BARBARA Y ; PORTER JERRY

**Agent(s):** RIDOUT AND MAYBEE LLP

**Designated states:** AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CU CY CZ DE DK EE ES FI FR GA GB GE GH GM GN GR GW HR HU ID IE IL IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MC MD MG MK ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT UA UG US UZ VN YU ZW

**International class** (IPC 8–9)**:** A47G19/22 G01F11/00 G01F11/26 (Advanced/Invention)

**International class** (IPC 1–7)**:** A47G19/22 B28B13/02 G01F11/26

**CPC:** A47G2200/048 A47G19/2266 G01F11/262

**European class:** A47G19/22B12 G01F11/26B

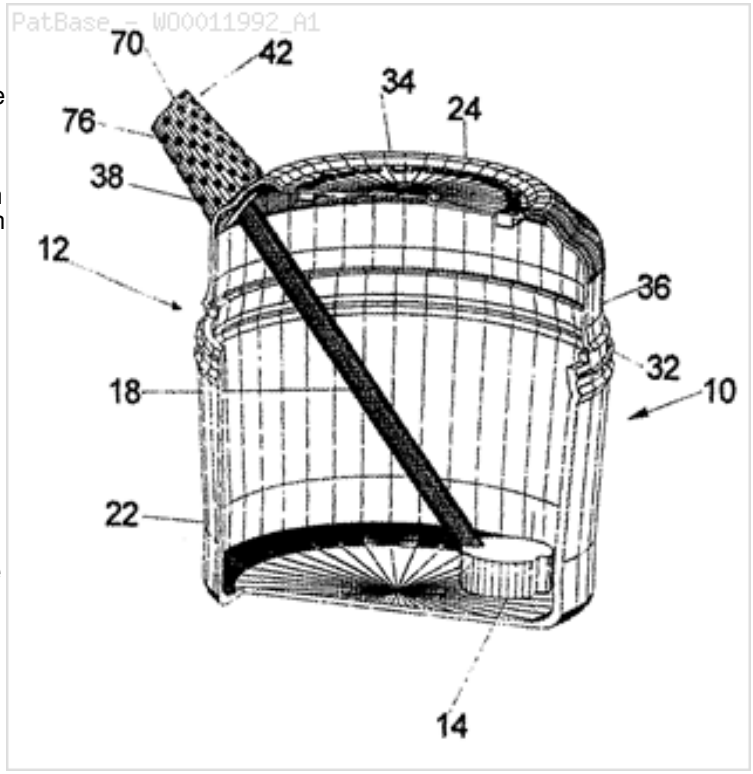
**US class:** 220/703 220/709 220/714 220/714S 222/456 222/464.1

Classification Explorer

**Cited documents:** US900644 A, US5810210 A, US5632407 A, US5431297 A, US5323928 A, US5222940 A, US4948499 A, US4828149 A, US4684045 A, US4424921 A, US3107031 A, US2460542 A, US2218681 A, US2148421 A, GB27439, GB241074 A, GB191027439 A, GB190927439 A, FR760765 A, FR753767 A, FR460765 A,

**Forward Citations:** WO07136748, WO07136748, WO0238012, WO0238012, US9132440, US8992468, US8579136, US8540660, US8517729, US8372020, US8038040, US7935065, US7854342, US7821702, US7679813, US7492505, US7046228, US6926176, US6755318, US2011213228, US2011168703, US2010096415, US2010010400, US2009039093, US2008023567, US2007263277, US2007023459, US2006282010, US2006125779, US2005182356, US2005178775, US2004144807, US2004046042, US2003034950, GB2494848, EP1551259, EP1341430, CN103385635,

**Abstract:**
Source: US2001008241A A container for dispensing a predetermined amount of liquid through a dispensing tube is disclosed. A valve is dimensioned to contain and dispense a predetermined about of liquid and dispense the liquid through a dispensing tube in contact with the valve. The liquid is in fluid contact with the inlet port when the base is in a first position and out of fluid contact with the inlet port when the base is in a second position. Thus, the valve fills with liquid when the container is in a substantially horizontal position while angling the container removes the liquid from contact with the valve and stops the fluid flow. Preferably the container has a sealable, watertight lid that receives the dispensing tube and incorporates vent holes to enable airflow into the container. The fluid inlet port can be placed in the side or top of the valve. The valve can alternatively be a tube with fluid and tube inlets in fluid communication. An air vent can be incorporated within the dispensing tube to prevent using the dispensing tube as a straw, it is preferable to include a drinking shield.



**84) Family number: 3439011** (US5040588A) © PatBase

**Title:** METHODS FOR FORMING MACROCOMPOSITE BODIES AND MACROCOMPOSITE BODIES PRODUCED THEREBY

**Priority:**

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|---|---|---|
| AU19890041704 19890922 | CA19892000790 19891013 | IN1990CA00565 19900706 |
| IN1989CA00801 19890929 | US19880269464 19881110 | CA19902020676 19900706 |
| US19920934746 19921007 | US19890405747 19890911 | US19890368564 19890620 |
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| US19900484575 19900223 | US19900520936 19900509 | US19950467482 19950606 |
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**Family:**

| Publication number | Publication date | Application number | Application date |
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| US5163499 A | 19921117 | US19900520936 | 19900509 |
| US5526867 A | 19960618 | US19950467482 | 19950606 |
| US5618635 A | 19970408 | US19950411055 | 19950327 |
| WO9113462 A2 | 19910905 | WO1991US01247 | 19910225 |
| WO9113462 A3 | 19911017 | WO1991US01247 | 19910225 |
| ZA8908535 A | 19910731 | ZA19890008535 | 19891109 |
| ZA8908538 A | 19910731 | ZA19890008538 | 19891109 |

**Probable Assignee:** LANXIDE TECHNOLOGY CO

**Assignee(s):**(std)**:** LANXIDE TECHNOLOGY CAPANY LP ; LANXIDE CORP ; LANXIDE TECHNOLOGY CO LTD

**Assignee(s):** LANXIDE TECHNOLOGY CO LP ; AGHAJANIAN MICHAEL KEVORK ; BURKE JOHN THOMAS ; ENGELGAU PETER MICHAEL ; HANNON GREGORY EUGENE ; KECK STEVEN DAVID ; KENNEDY CHRISTOPHER ROBIN ; LANXIDE TECHNOLOGY CO ; LANXIDE TECHNOLOGY CO LP TRALEE INDUSTRIAL PARK NE ; LANXIDE TECHNOLOGY COLP ; LANXIDE TECHNOL CO LP ; LANXIDE TECHNOLOGY CO LP NEWARK DELAWARE ; LANXIDE TECHNOLOGY CO LP A LTD ; LANXIDE TECHNOLOGY CO LP NEWARK DEL ; LANXIDE TECHNOLOGY CO LP A PARTNERSHIP OF DE LTD ; LANXIDE TECHNOLOGY CO LP NEWARK DEL US ; NAGELBERG ALAN SCOTT ; RANKISAIDO TEKUNOROJII CO LP ; RANKU SAIDO KK ; WIENER ROBERT JAMES ; NEWKIRK MARC STEVENS ; WHITE DANNY RAY ; NAGELBERG ALLAN SCOTT ; ROCAZELLA MICHAEL ANGELO

**Inventor(s):**(std)**:** AGHAJANIAN MICHAEL K ; AGHAJANIAN MICHAEL KERVORK ; AGHAJANIAN MICHAEL KEVORK ; ARAN SUKOTSUTO NAGERUBAAGU ; BURKE JOHN T ; BURKE JOHN THOMAS ; ALAN SCOTT NAGELBERG ; CHRISTOPHER ROBIN KENNEDY ; DANII REI HOWAITO ; DANNY RAY WHITE ; ENGELGAU PETER ; ENGELGAU PETER M ; ENGELGAU PETER MICHAEL ; HANNON GREGORY ; HANNON GREGORY E ; HANNON GREGORY EUGENE ; JIYON TOOMASU BAAKU ; JOHN THOMAS BURKE ; KECH STEVEN DAVID ; KECK STEVEN ; KECK STEVEN D ; KECK STEVEN DAVID ; KENNEDY CHRISTOPHER R ; KENNEDY CHRISTOPHER ROBIN ; KENNEDY CRISTOPHER ROBIN ; KURISUTOFUAA ROBIN KENEDEII ; LEE CHENG TSIN ; MAAKU SUTEIIBUNSU NIYUUKAAKU ; MAIKERU KEBOTSUKU AGUHAJIYANIA ; MARC STEVENS NEWKIRK ; MICHAEL KERVORK AGHAJANIAN ; MICHAEL KEVORK AGHAJANIAN ; NAGELBERG ALAN ; NAGELBERG ALAN S ; NAGELBERG ALAN SCOTT ; NAGELBERK ALAN SCOTT ; NEGELBERG ALAN SCOTT ; NEWKIRK MARC S ; NEWKIRK MARC STEVEN ; NEWKIRK MARC STEVENS ; STEVEN DAVID KECK ;

SUTEIIBUN DEBITSUDO KETSUKU ; WEINER ROBERT J ; WHITE DANNY ; WHITE DANNY R ; WHITE DANNY RAY ; ROBAATO JIEEMUZU UIINAA ; ROBERT JAMES WIENER ; ROCAZELLA MICHAEL ; ROCAZELLA MICHAEL A ; ROCAZELLA MICHAEL ANGELO ; WIENEN ROBERT J ; WIENER ROBERT J ; WIENER ROBERT JAMES ; NAGELBERG ALANSCOTT ; NAGELBERG ALLAN S

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**Designated states:** AT AU BB BE BF BG BJ BR CA CF CG CH CM DE DK ES FI FR GA GB GR HU IT JP KP KR LI LK LU MC MG ML MR MW NL NO PL RO SD SE SN SU TD TG US

**International class (IPC 8–9):** B22D19/00 B22D19/04 B22D19/14 C04B14/32 C04B35/00 C04B35/10 C04B35/18 C04B35/58 C04B35/65 C04B35/71 C04B37/02 C22C1/10 C22C21/00 C22C47/06 C22C47/08 C22C47/10 C22C49/06 H01L21/48 H01L23/02 H01L23/14 H01L23/373 (Advanced/Invention);
B22D19/00 B22D19/14 C22C21/00 H01L23/02 (Advanced/Non–invention);
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**International class (IPC 1–7):** B22C B22D19/00 B22D19/02 B22D19/04 B22D19/14 B22F1/00 B22F3/02 B22F3/16 B22F3/26 B22F7/02 B22F7/04 B22F7/06 B22F9/00 B23C B23K31/00 C04B14/32 C04B35/00 C04B35/10 C04B35/18 C04B35/58 C04B35/60 C04B35/65 C04B35/71 C04B37/02 C04B41/88 C22C1/00 C22C1/04 C22C1/09 C22C1/10 C22C21/00 C22C21/06 C22C29/00 C22C29/02 C22C29/12 C22C29/14 C22C29/16 C22C32/00 C22C47/06 C22C47/08 C22C47/10 C22C49/06 C23C H01L21/48 H01L23/02 H01L23/06 H01L23/373

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**European class:** C04B35/65L C04B37/02B C22C1/10A6 C22C1/10D C22C47/06 H01L21/48B H01L23/14 H01L23/373H M22C1/10D6B

**US class:** 119/263 119/266 164/101 164/108 164/97 164/98 174/52.3 174/52.4 174/547 174/564 228/120 257/E23.005 257/E23.112 428/545 428/614

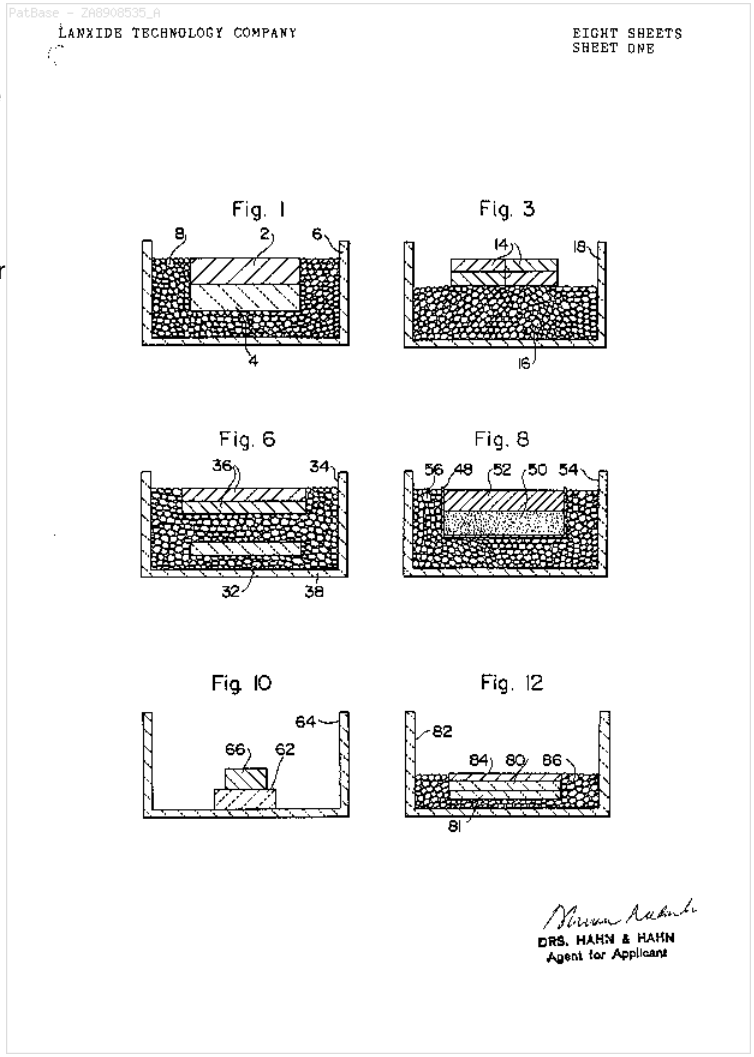
Classification Explorer

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**Abstract:**
Source: US5040588A The present invention relates to the formation of a macrocomposite body by spontaneously infiltrating a permeable mass of filler material or a preform with molten matrix metal and bonding the spontaneously infiltrated material to at least one second material such as a ceramic or ceramic containing body and/or a metal or metal containing body. Particularly, an infiltration enhancer and/or infiltration enhancer precursor and/or infiltrating atmosphere are in communication with a filler material or a preform, at least at some point during the process, which permits molten matrix metal to spontaneously infiltrate the filler material or preform. Moreover, prior to infiltration, the filler material or preform is placed into contact with at least a portion of a second material such that after infiltration of the filler material or preform, the infiltrated material is bonded to the second material, thereby forming a macrocomposite body.



**85) Family number: 30560613** (US5840279A) © PatBase

**Title:** PHARMACEUTICAL POWDER CARTRIDGE WITH INTEGRATED METERING DEVICE AND INHALER FOR POWDERED MEDICAMENTS

**Priority:**

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| DE192210415 19950621 | DE192210416 19950621 | CA20022225396 20020501 |
| DE19951022415 19950621 | DE19951022415 19950621 | DE19951022416 19950621 |
| US19980113652 19980710 | US19960667414 19960621 | WO1996EP02396 19960603 |
| NZ19960310990 19960603 | DE19966017431 19960603 | DE19951022416 19950621 |

**Family:**

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| TR9701665 T1 | 19980622 | TR19970001665T | 19960603 | |
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| WO9700703 A1 | 19970109 | WO1996EP02396 | 19960603 | |
| ZA9605244 A | 19970109 | ZA19960005244 | 19960620 | |

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**Agent(s):** SPRUSON AND FERGUSON; ASPEN PHARMA PTY LTD; MARKS AND CLERK; REINHOLD COHN AND PARTNERS; GE EHRLICH 1995 LTD

**Designated states:** AT AU BE BR BY CA CH CN CY CZ DE DK ES FI FR GB GR HU IE IL IT JP KR LI LU MC MX NL NO NZ PL PT RU SE SG SI SK TR UA

**International class (IPC 8–9):** A61K9/14 A61K9/72 A61M11/00 A61M15/00 (Advanced/Invention); A61M11/00 A61M15/00 (Advanced/Non–invention); A61M15/00 (Core/Invention); A61M11/00 A61M15/00 (Core/Non–invention); A61M (Subclass/Invention)

**International class (IPC 1–7):** A61J1/00 A61J3/02 A61K9/14 A61K9/72 A61L9/04 A61M11/02 A61M15/00 A61M31/00 A61M31/00 B01F3/06

**CPC:** A61M11/002 A61M15/0068 A61M15/0096 A61M2206/16 A61M15/0095 A61M15/00 A61M15/0065 A61M2202/064

**European class:** A61M15/00 A61M15/00D K61M11/00A1 K61M15/00D4 K61M15/00T4 K61M15/00T6 K61M202/06B K61M206/16

**US class:** 222/23 222/3 222/402.1 424/422 424/434 424/435 424/45 424/46

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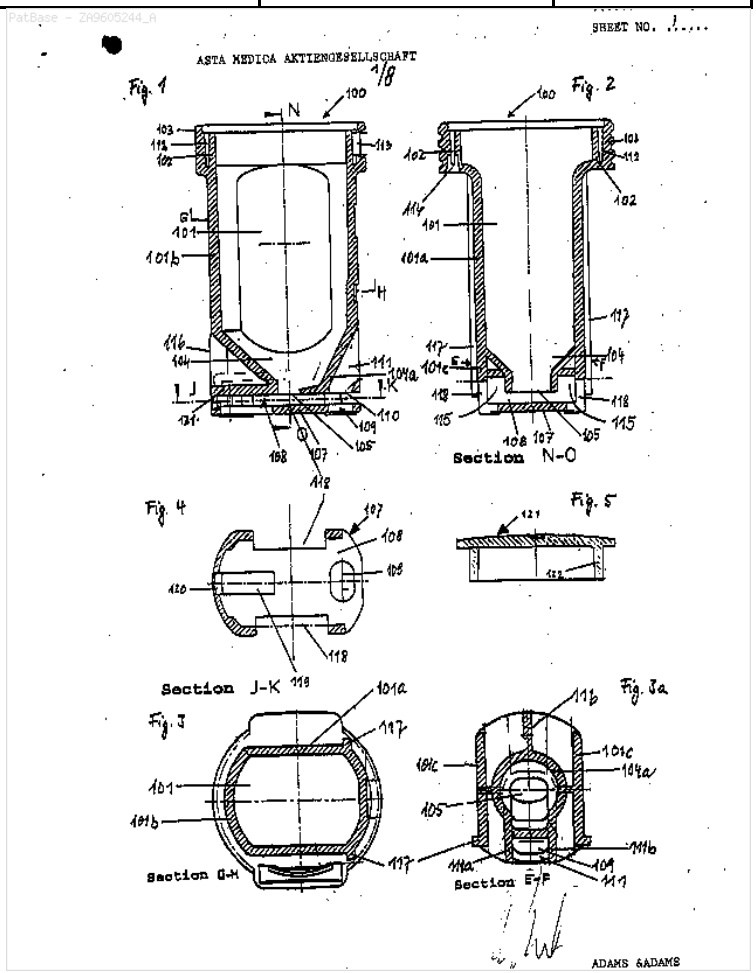
**Forward Citations:** WO9947273, WO9947273, WO9939761, WO9841259, WO17076990, WO16202800, WO16170009, WO16057693, WO15187025, WO15091287, WO15091285, WO14124757, WO14095920, WO14095663, WO13178742, WO13175013, WO13149959, WO13139712, WO13114371, WO13107641, WO13107641, WO13107640, WO13068554, WO13068552, WO13017461, WO13010881, WO13010880, WO12160030, WO12146667, WO12140081, WO12069202, WO12041476, WO11157397, WO11144338, WO11141180, WO11113578, WO11101161, WO11069647, WO11057757, WO11035900, WO10097172, WO10094484, WO10094483, WO10081692, WO10072354, WO10072352, WO09153043, WO08107125, WO06106367, WO06058022, WO04071562, WO04033010, WO03061742, WO03000325, WO0200281, WO0176668, WO0143801, WO0143801, USRE46050, USRE45068, USRE43174, USD762871, USD741502, USD469527, US9655850, US9630930, US9610351, US9603907, US9603906, US9511198, US9492625, US9446133, US9446001, US9393372, US9364619, US9364436, US9358352, US9346766, US9346759, US9339615, US9333195, US9326936, US9308335, US9295793, US9283193, US9254262, US9241903, US9233159, US9220687, US9202164, US9192675, US9179691, US9108918, US9056100, US8973571, US8915246, US8912193, US8865728, US8858472, US8820321, US8815838, US8807132, US8802699, US8758816, US8691852, US8651104, US8636001, US8629139, US8598363, US8573204, US8567394, US8563731, US8561609, US8546423, US8536165, US8524908, US8524735, US8524734, US8518919, US8513279, US8508385, US8501943, US8499757, US8485180, US8459252, US8424518, US8420669, US8375940, US8357696, US8283342, US8258308, US8242177, US8235039, US8178679, US8161969, US8074641, US8071073, US8051851, US8006690, US7964615, US7954492, US7591264, US7562656, US7540282, US7422013, US7418961, US7387122, US7258118, US7234464, US7131441, US6948495, US6901929, US6718972, US6701917, US6698422, US6681768, US6546929, US6523536, US6435177, US6345617, US6293279, US6273086, US6182655, US6142145, US6071498, US2010309020, US2010300441, US2010152147, US2010012120, US2009178678, US2009110679, US2007215152, US2007209661, US2007020330, US2006231096, US2006180148, US2006110331, US2006081246, US2006037612, US2005158394, US2004025874, US2003209243, US2003136405, US2001027789, KR100904955, JP2016106151, JP2015503979, JP2015503978, JP2014141520, JP2011513450, JP2008534209, HR20040058, HR20020591, EP2954891, EP2954890, EP2954889, EP2946769, EP2946768, EP2848615, EP2774623, EP2774622, EP2738172, EP2668941, EP2666465, EP2647627, EP2641900, EP2617449, EP2617448, EP2594272, EP2592078, EP2592077,

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**Abstract:**
Source: US5840279A Pharmaceutical powder cartridge for powder inhalers for receiving a medicament depot for a large number of pharmaceutical powder doses, having an integrated metering device which comprises at least one metering cavity for receiving a predetermined quantity of a pharmaceutical powder, the integrated metering device being capable of being moved at least out of a filling position into an emptying position approximately transversely with respect to the flow direction of the pharmaceutical powder, and an inhaler for powdered medicaments, in which inhaler the medicament can be received by a patient by means of an air stream and which has a receptacle for such a pharmaceutical powder cartridge.

**FDA Data:**

| Application number | Active ingredient | Proprietary name | Applicant | Date of approval |
|---|---|---|---|---|
| 202450 | ACLIDINIUM BROMIDE | TUDORZA PRESSAIR | ASTRAZENECA PHARMS | Jul 23, 2012 |
| 202450 | ACLIDINIUM BROMIDE | TUDORZA PRESSAIR | FOREST LABS INC | Jul 23, 2012 |



0) US2013075356A – SINGLE SERVING BEVERAGE VESSEL WITH A RESEALABL...

**86) Family number: 53291834** (US2013075356A) © PatBase

**Title:** SINGLE SERVING BEVERAGE VESSEL WITH A RESEALABLE LID

**Priority:** US20110240194 20110922

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| US2013075356 AA | 20130328 | US20110240194 | 20110922 |
| WO13043211 A1 | 20130328 | WO2011US59991 | 20111109 |

**Probable Assignee:** CELEBRATE EVERYWHERE LLC

**Assignee(s):**(std)**:** BERGIDA JOHN R ; BERGIDA MARVIN M ; BERGIDA MIKE ; CELEBRATE EVERYWHERE LLC

**Inventor(s):**(std)**:** BERGIDA JOHN R ; BERGIDA MARVIN M ; BERGIDA MIKE

**Agent(s):** LATHROP AND GAGE LLP

**Designated states:** AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

**International class**(IPC 8–9)**:** A47G19/22 A47G23/00 B65D41/04 B65D53/02 (Advanced/Invention)

**CPC:** A47G19/2205

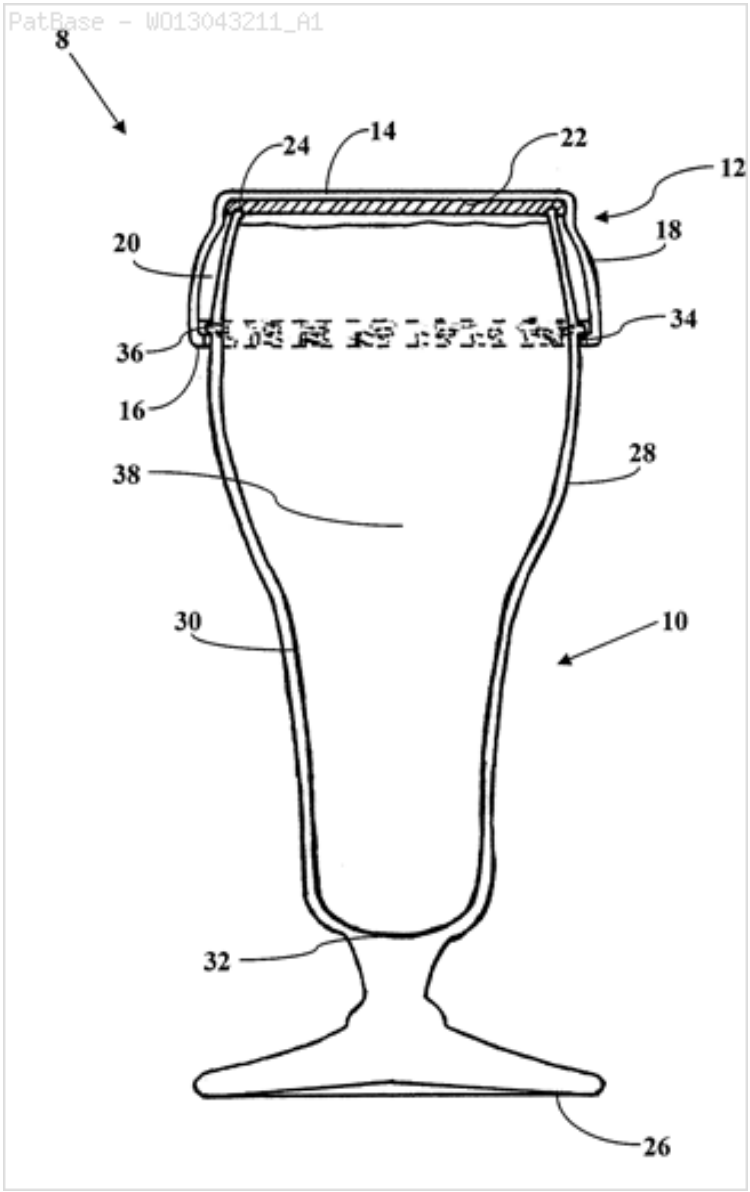
**US class:** 215/230 215/329 215/352

Classification Explorer

**Cited documents:** WO9937190 A1, WO07090439 A1, USD95593 S1, USD75836 S1, USD65041 S1, USD52301 S1, USD48706 S1, USD48081 S1, USD47451 S1, USD46806 S1, USD43569 S1, USD43568 S1, USD42994 S1, USD42348 S1, USD41341 S1, USD38969 S1, USD377737 S1, USD373706 S1, USD359197 S1, USD333591 S1, USD254831 S1, USD22497 S1, USD195981 S1, USD163564 S1, USD156083 S1, USD121573 S1, USD120226 S1, US8328014 BB, US8196764 BB, US7997434 BB, US7950545 BA, US7467726 BA, US728981 A, US6968965 BA, US6905038 BB, US6820743 BB, US6712232 BB, US6662959 BA, US640860 A, US6398050 BA, US6237791 BA, US6216897 BA, US6164473 A, US6105801 A, US6062408 A, US5975322 A, US5947310 A, US5662233 A, US5570797 A, US5551582 A, US4948000 A, US4858758 A, US4834251 A, US4289248 A, US4101044 A, US3923181 A, US3695475 A, US3559832 A, US3526335 A, US3402844 A, US3369687 A, US3349950 A, US3253726 A, US3140007 A, US3089605 A, US3089603 A, US2996208 A, US2766796 A, US2752060 A, US2700249 A, US2609955 A, US2465662 A, US2345737 A, US2172544 A, US2057972 A, US2011168594 AA, US2010163559 AA, US2010044335 AA, US2009242503 AA, US2009218345 AA, US2009001043 AA, US2007266755 AA, US2006016820 AA, US2005230341 AA, US2005139570 AA, US2005092760 AA, US2005045632 AA, US2004247749 AA, US2004118804 AA, US2004069740 AA, US2003178427 AA, US2003070951 AA, US2003057173 AA, US2002108924 AA, US2001052508 AA, US1351496 A, US1243033 A, KR200411164 Y1, KR200259883 Y1, KR200230242 Y1, JPS52123470 U, JP52123470 U1, JP52123470 U, EP1447334 A1, DE4109886 A1, DE10122951 A1,

**Forward Citations:** WO15118459, USD781655, USD760593, USD756713, US9533789, US9282837, US8833559, US2013313220,

**Abstract:**
Source: US2013075356A Disclosed herein is a single serving beverage vessel with a resealable lid. Most often this will be prefilled with beverage for retail sale. The vessel can be shaped in various designs similar to wine, beer, coffee, or soft drink glasses. It can be made from either recyclable plastic or glass. A tamper evident seal can be either non−obtrusive or act as a removable advertising skin. The twist on/off lid extends over the opening at the top of the vessel and down the sides of the walls, interlocking with beads, threads, other protrusions or indentations. The locking features, in securing a fluid tight seal, are located sufficiently below the rim of the glass to not interfere with the user's lips. Additionally, the leak proof lid reseals to minimize spills and for reuse of the product at a later time.



**87) Family number: 11808073** (US5341935A) © PatBase

**Title:** METHOD OF SEPARATING RESOURCE MATERIALS FROM SOLID WASTE

**Priority:** US19930025992 19930303 US19930036459 19930324 US19940297978 19940830 US19930061285 19930429 US19970895302 19970716 US19940200782 19940301 WO1994US02297 19940303

**Family:**

| Publication number | Publication date | Application number | Application date |
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| AP9500762 A0 | 19980331 | AP19950000762 | 19940303 |
| AT205425 E | 20010915 | AT19940911450T | 19940303 |
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| BG100033 A | 19960531 | BG19950100033 | 19950927 |
| BRPI9406584 A | 19960102 | BR1994PI06584 | 19940303 |
| CA2157273 AA | 19950830 | CA19942157273 | 19940303 |
| CL1994000465 A1 | 19950530 | CL19940000465 | 19940331 |
| CN1120823 A | 19960417 | CN19941091744 | 19940303 |
| CR4929 A | 19940706 | CR19940004929 | 19940407 |
| CZ9502228 A3 | 19960612 | CZ19950002228 | 19940303 |
| DE69428273 D1 | 20011018 | DE19946028273 | 19940303 |
| DE69428273 T2 | 20020627 | DE19946028273T | 19940303 |
| EP0693979 A1 | 19960131 | EP19940911450 | 19940303 |
| EP0693979 A4 | 19990107 | EP19940911450 | 19940303 |
| EP0693979 B1 | 20010912 | EP19940911450 | 19940303 |
| ES2164701 T3 | 20020301 | ES19940911450T | 19940303 |
| FI954119 A | 19951025 | FI19950004119 | 19950901 |
| FI954119 A0 | 19950901 | FI19950004119 | 19950901 |
| GT199400029 A | 19951011 | GT19940000029 | 19940419 |
| HU76072 A2 | 19970630 | HU19950002565 | 19940303 |
| HU9502565 A0 | 19951030 | HU19950002565 | 19940303 |
| JP8507466 T2 | 19960813 | JP19940520156T | 19940303 |
| KR19960700827 A | 19960224 | KR19950703708 | 19950902 |
| NO953443 A | 19951019 | NO19950003443 | 19950901 |
| NO953443 A0 | 19950901 | NO19950003443 | 19950901 |
| OA10180 A | 19961218 | OA19950060704 | 19950901 |
| PL310534 A1 | 19951227 | PL19940310534 | 19940303 |
| SK108795 A3 | 19960508 | SK19950001087 | 19940303 |
| SV1994000015 A | 19951215 | SV19940000015 | 19940408 |
| TW267112 B | 19960101 | TW19940107501 | 19940816 |
| US5341935 A | 19940830 | US19930061285 | 19930429 |
| US5649785 A | 19970722 | US19940200782 | 19940301 |
| US5660282 A | 19970826 | US19940297978 | 19940830 |
| US5976435 A | 19991102 | US19970895302 | 19970716 |
| WO9420232 A1 | 19940915 | WO1994US02297 | 19940303 |

**Probable Assignee:** DEERE AND CO

**Assignee(s):**(std)**:** EVERGEEN GLOBAL RESOURCES INC ; EVERGREEN GLOBAL RESOURCES ; EVERGREEN GLOBAL RESOURCES INC ; ROOSTH SAM

**Assignee(s):** EVERGREEN GLOBAL RESOURCES INCUS ; DAMICO GWEN ; DEERE AND CO ; DJERF TOBIN

**Inventor(s):**(std)**:** DAMICO GWEN ; DJERF TOBIN

**Inventor(s):** GWEN DAMICO ; TOBIN DJERF ; DAMIO GWEN

**Agent(s):** FB RICE; KIRBY EADES GALE BAKER; HARNECKER

**Designated states:** AT AU BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CZ DE DK ES FI FR GA GB GN GR HU IE IT JP KP KR KZ LI LK LU LV MC MG ML MN MR MW NE NL NO NZ PL PT RO RU SD SE SI SK SN TD TG UA UZ VN

**International class (IPC 8–9):** A61K31/40 A61L11/00 B01D11/02 B01D21/00 B03B4/00 B03B7/00 B03B9/06 B06B3/00 B07B13/00 B07B9/00 B08B3/00 B09B3/00 B09B5/00 B29B13/02 B29B17/00 B29B17/02 B29B17/04 B29C47/00 B29C47/02 B29C47/06 B81B3/00 H01L21/00 (Advanced/Invention); A61L11/00 B09B3/00 B09B5/00 B29B17/00 B29B17/04 (Advanced/Non–invention); A61L11/00 B03B4/00 B03B9/00 B06B3/00 B07B13/00 B07B9/00 B09B3/00 B09B5/00 B29B13/00 B29B17/00 B29B17/02 B29B17/04 B29C47/02 B29C47/06 B81B3/00 H01L21/00 (Core/Invention); B08B3/00 (Core/Non–invention)

**International class (IPC 1–7):** A61K31/40 A61L11/00 B01D11/02 B01D21/00 B02C19/12 B03B7/00 B03B9/06 B06B3/00 B07B13/00 B08B3/00 B09B3/00 B09B5/00 B29B17/00 B29B17/02 B29C47/00 B29C47/06

**CPC:** Y10S241/38 Y10S264/92 B29C47/0023 B29C47/003 B29K2705/02 B29K2705/12 Y02W30/523 Y02W30/622 Y02W30/525 B07B9/00 B03B4/00 B29B13/022 B03B9/06 B03B9/061 B07B13/003 B09B3/00 B09B3/0025 B09B3/0033 B29B17/02 B29B2017/0203 B29B2017/0227 B29B2017/0258 B29C47/0009 B29C47/02 B29C47/128 B29K2023/06 B29K2027/06 B29K2105/065 B29K2105/26 B29K2705/00 B29K2709/08 B29K2711/12

**European class:** B03B4/00 B03B9/06 B03B9/06D B07B13/00B B07B9/00 B09B3/00 B09B3/00D B09B3/00D2 B29B13/02C B29B17/02 B29C47/02 B29C47/12E L29B17/02B L29B17/02Z1C L29B17/02Z2A L29K105/06B L29K105/26 L29K23/06 L29K27/06 L29K705/00 L29K705/02 L29K705/12 L29K709/08 L29K711/12

**US class:** 209/11 209/20 209/3 209/46 209/479 209/692 209/710 241/DIG.38 264/112 264/122 264/173.12 264/173.16 264/920 405/128 405/129 405/129.27 405/129.3 425/131.1 425/133.1 425/463 588/249

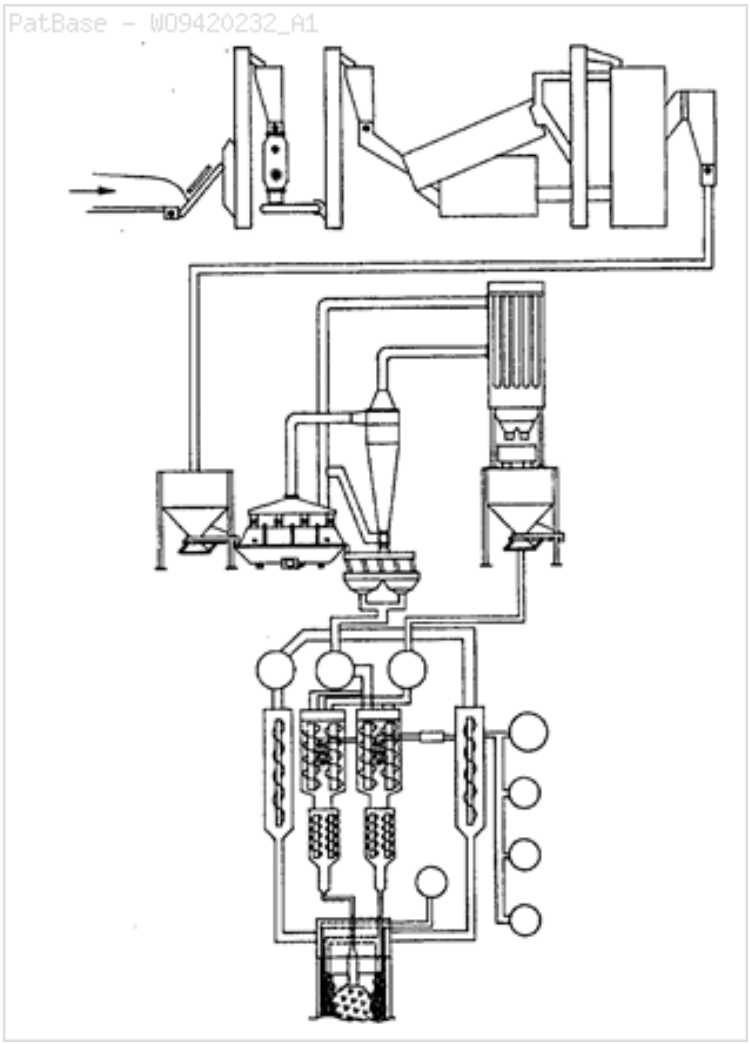
Classification Explorer

**Cited documents:** WO9103515 A1, US5614227 A, US5453236 A, US5401452 A, US5341935 A, US5303826 A, US5217655 A, US5188500 A, US5126058 A, US5125819 A, US5116574 A, US5100066 A, US5078924 A, US5071541 A, US5061735 A, US4894148 A, US4892647 A, US4874134 A, US4771894 A, US4755284 A, US4722484 A, US4606739 A, US4514168 A, US4512879 A, US4506835 A, US4287147 A, US4264352 A, US4234632 A, US4145007 A, US4098464 A, US3936372 A, US3876157 A, US3856217 A, US3848813 A, US3738483 A, US3721183 A, US3604179 A, US3599788 A, US3557685 A, US3446355 A, US3330088 A, US3114703 A, US3113014 A, US3105040 A, US2806249 A, US1141852 A, GB2240731 A1, FR2622833 A1, FR2579908 A1, FR2338967 A1, FR2240101 A1, EP0247423 A2, DE4110679 A1,

**Forward Citations:** WO9937403, WO15075663, WO13102451, WO12123807, WO11005928, WO10127036, WO09147463, WO09147463, WO09111791, WO09023557, WO09023557, WO05120729, WO05018840, WO05018840, WO04024355, WO04024354, US9650650, US9650584, US9649666, US9340441, US9290399, US9217188, US9162231, US9073764, US9061443, US9061289, US8800775, US8746599, US8721889, US8684288, US8636235, US8632024, US8627960, US8579997, US8557111, US8551341, US8479923, US8459581, US8440074, US8393558, US8360347, US8360242, US8329035, US8322538, US8262741, US8258364, US8201692, US8177069, US8158902, US7988830, US7972512, US7966684, US7895769, US7837741, US7739891, US7695524, US7625195, US7621472, US7534304, US7513132, US7513004, US7410687, US7387266, US7300468, US7188730, US7172143, US7108138, US7108138, US7014132, US6973758, US6793709, US6588690, US6467708, US6389747, US6136590, US6000639, US5941468, US5902976, US5660282, US2015136662, US2015136661, US2014361465, US2014175695, US2014077007, US2012305688, US2011220554, US2011174747, US2011024531, US2011017664, US2011017644, US2011006002, US2011005284, US2010323056, US2010264082, US2010224537, US2010200371, US2010126914, US2010126913, US2010051514, US2010013116, US2009314625, US2009238920, US2009221865, US2009032442, US2009019721, US2008296417, US2008257794, US2008035769, US2007253862, US2007187299, US2007012597, US2006266857, US2005242007, US2005061716, US2004250700, US2004127355, US2004035757, US2004004033, US2003131688, US2002096796, KR101696583, JP2013180267, ITVI20110168, ITMO20110266, ITMI20131941, ITFI20080159, GC3104, GB2429454, GB2419551,

GB2419551, ES2592806, ES2384625, EP2465656, EP1755794, EP1755794, EP0894738, EP0755729, EA025602, DE102012010032, DE102012010032, CN105080937, CN104607386, CN103480637, CN103480637, CN103230918, CN103111453, CN103111453, CN103084370, CN103084370, CN102941212, CN102941212, CN102548912, CN102548912,

**Abstract:**
Source: US5341935A A method of separating solid waste materials, in the form of dried particles of substantially uniform size, into constituent materials on the basis of density, with primary stage processing utilizing a series of fluidized bed and cyclonic separator assemblies to separate materials on the basis of density, followed by secondary stage processing utilizing combinations of vibratory conveyors, melt separation assemblies, and the like, is provided by the present invention. As the waste materials move through the separator assemblies the initial stream is further refined into a plurality of streams of increasingly specific densities as a result of air flow separation of lighter particles from heavier particles in each assembly. Further refined separation may be achieved through the use of vibratory conveyors, melt separation, and the like.



0) US2011262301A – CASSETTE FOR VACUUM AND STEAM STERILIZATION APP...

**88) Family number: 29494311** (US2011262301A) © PatBase

**Title:** CASSETTE FOR VACUUM AND STEAM STERILIZATION APPARATUS

**Priority:** CA19992268042 19990406 CA20002365828 20000406 CA20002365829 20000406 CA20002614685 20000406 WO2000CA00377 20000406 WO2000CA00376 20000406 US20030958036 20030620 US20110097230 20110429 CA20082365828 20080130

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| CA2268042 AA | 20001006 | CA19992268042 | 19990406 |
| CA2365828 AA | 20011005 | CA20002365828 | 20000406 |
| CA2365828 C | 20080129 | CA20002365828 | 20000406 |
| CA2365829 AA | 20011005 | CA20002365829 | 20000406 |
| CA2365829 C | 20070807 | CA20002365829 | 20000406 |
| CA2614685 AA | 20001012 | CA20002614685 | 20000406 |
| CA2614685 C | 20100316 | CA20002614685 | 20000406 |
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| EP1175231 B1 | 20030813 | EP20000916720 | 20000406 |
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| JP2002540852 T2 | 20021203 | JP20000609114T | 20000406 |
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| JP4656730 B2 | 20110323 | JP20000609113T | 20000406 |
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| WO0059553 A1 | 20001012 | WO2000CA00377 | 20000406 |

**Probable Assignee:** SCICAN A DIVISION OF LUX AND ZWINGENBERGER LTD

**Assignee(s):**(std)**:** CIORACA DORIN ; GHELMAN EDUARDO C ; HOUSE EDWARD ; KITAURA EDWARD ; MCPHAIL NEIL ; SCICAN A DIVISION OF LUX AND Z ; SCICAN A DIVISION OF LUX AND ZWI ; SZCZUROWSKI ADAM ; YIN XIANG DONG ; VILOTIJEVIC DARKO ; STEFANUK WILLIAM ; ZENG WINSTON L ; SCICAN DIVISION OF LUX AND ZWING ; SCICAN LTD ; SCICAN A DIVISION OF LUX AND ZWINGENBERGER LTD

**Assignee(s):** SCICAN DIVISION OF LUX AND ZWINGENBERGER LTD TORONTO ; SCICAN DIVISION OF LUX AND ZWINGENBERGER LTD

**Inventor(s):**(std)**:** CIORACA DORIM ; CIORACA DORIN ; GHELMAN C ; GHELMAN EDUARDO C ; HOUSE EDWARD ; KITAURA EDWARD ; MCPHAIL NEIL ; STEFANUK WILLIAM ; SZCZUROWSKI ADAM ; VILOTIJEVIC DARKO ; YIN XIANG DONG ; ZENG L ; ZENG WINSTON L

**Agent(s):** DEETH WILLIAMS WALL LLP; RIDOUT AND MAYBEE LLP; CLARK AND BRODY

**Designated states:** AT BE CA CH CY DE DK ES FI FR GB GR IE IT JP LI LU MC NL PT SE US

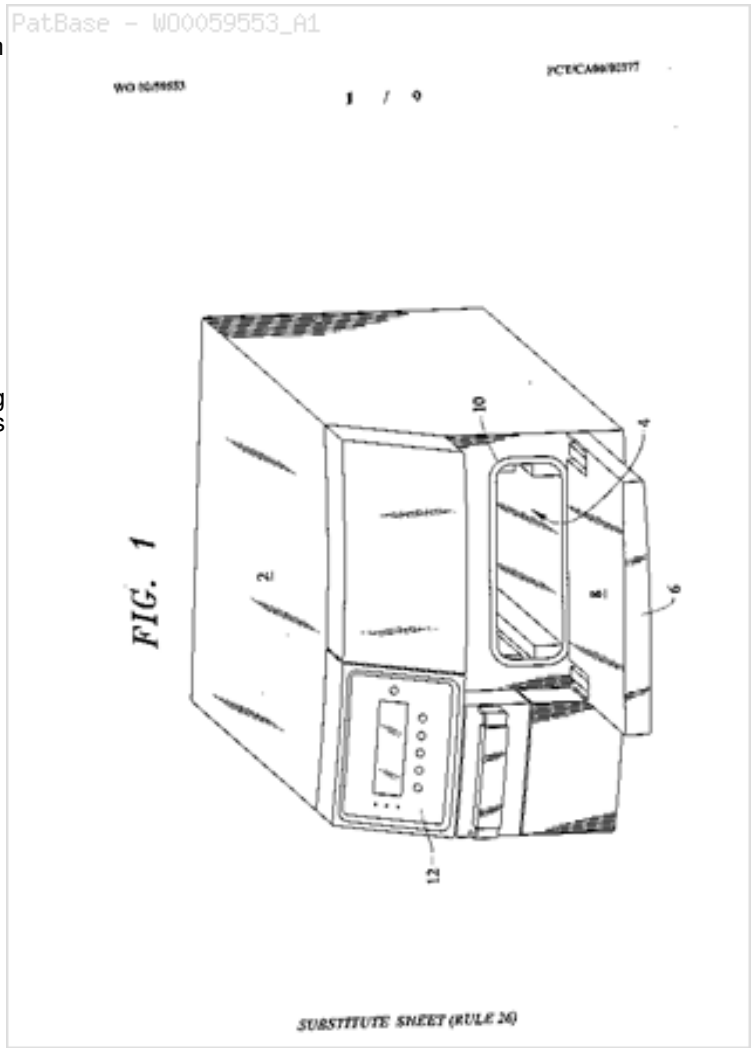
**International class (IPC 8–9):** A61B19/02 A61B50/33 A61C19/00 A61L2/06 A61L2/07 A61L2/08 A61L2/20 A61L2/24 A61L2/26 B65D53/02 F16J15/06 F16K51/00 (Advanced/Invention); A61L2/07 (Advanced/Non–invention)

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| **International class (IPC 1–7):** | A61B19/02 A61C19/00 A61L2/06 A61L2/07 A61L2/20 A61L2/24 A61L2/26 |
| **CPC:** | Y10T137/9029 A61L2/07 A61L2/24 A61L2/26 A61L2202/122 A61L2202/14 A61L2202/24 |
| **European class:** | A61L2/07 A61L2/24 A61L2/26 K61L202/122 K61L202/140 K61L202/240 |
| **US class:** | 137/798 137/798S 237/67 277/650 277/650S 422/26 422/26P 422/28 422/292 422/292S 422/295 422/297 422/33 |

Classification Explorer

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| **Cited documents:** | US6066294 A, US6010670 A, US5993754 A, US5759502 A, US5571476 A, US5543119 A, US5533539 A, US5368821 A, US5344622 A, US5310524 A, US5290511 A, US5271893 A, US5266275 A, US5207237 A, US5160700 A, US5145642 A, US4783321 A, US4759909 A, US4105407 A, US3834872 A, US3086263 A, US2868616 A, US2258746 A, US1746522 A, JP8508663 T2, JP6510932 T2, JP57170258 A2, JP55027690 U1, JP55027690 U, EP0870512 A2, DE19714298 A1, CA2268042 AA, |
| **Forward Citations:** | WO16138482, WO14028063, WO10106161, WO09129902, WO09039616, WO09039615, WO06126103, WO06126103, USD668349, US9649399, US9533061, US9226986, US9108872, US9057657, US9017619, US8815174, US8795603, US8764975, US8641981, US8142732, US7641864, US7641852, US2015320896, US2012267323, US2008166263, KR101451309, JP2015518452, JP2015513425, JP2013539999, JP2008264571, JP2002325719, EP2606913, EP2205287, EP1867344, EP1484069, EP1484069, EP1481692, EP1462120, DE102015106641, DE102015100455, DE102015100454, DE102012102370, DE102012101833, DE102012101833, DE102012101832, CN104220794, CN104220794, AU2013205738, AU2006250831, |

**Abstract:**
Source: US2011262301A A cassette for steam sterilizing of instruments comprises a lid and a tray, the tray having an inlet and an outlet for the cassette for communication with a sterilization apparatus, and the lid having a seal configured to interface with the tray to maintain either pressure or vacuum conditions for an interior of the cassette. The seal is configured to allow the lid to move between a vacuum position and a pressurized position without exposing the cassette interior to an outside environment. The inlet and outlets have two sets of valves and seals that ensure that the cassette interior remains sterile after the sterilization process is complete and during cassette storage. One set of valves also allows access to the cassette interior for the steam sterilization cycle.




- **search:** SS2 FT=box and (honeybee* or bee*) and base and wall* and lid and hive* (Results 22)

- List: SS2 1–50 (FT=box and (honeybee* or bee*) and base and wall* and lid and hive*) (Results 22)

0) US2014199914A – APPARATUS FOR TREATMENT OF PLANTS

**1) Family number: 52121123** (US2014199914A) © PatBase

**Title:** APPARATUS FOR TREATMENT OF PLANTS

**Priority:**
CA20122832518 20120403 CA20162832518 20160706 JP20140502961T 20120403
CN201280028052 20120403 JP20160122350 20160621 EP20120768475 20120403
US20110472872P 20110407 US20120609549P 20120312 WO2012CA00288 20120403
US20120110323 20120403 US20160148105 20160506 US20140110323 20140311

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| BR112013025919 A2 | 20160809 | BR20131125919 | 20120403 |
| CA2832518 AA | 20131007 | CA20122832518 | 20120403 |
| CA2832518 C | 20160927 | CA20122832518 | 20120403 |
| CA2934312 AA | 20121011 | CA20122934312 | 20120403 |
| CL2013002879 A1 | 20140711 | CL20130002879 | 20131007 |
| CL53259 B | 20161021 | CL20130002879 | 20131007 |
| CN103687481 A | 20140326 | CN201280028052 | 20120403 |
| CN103687481 B | 20160907 | CN201280028052 | 20120403 |
| CN106259053 A | 20170104 | CN201610633325 | 20120403 |
| EP2693871 A1 | 20140212 | EP20120768475 | 20120403 |
| EP2693871 A4 | 20140910 | EP20120768475 | 20120403 |
| EP2693871 B1 | 20170222 | EP20120768475 | 20120403 |
| EP3165085 A1 | 20170510 | EP20160205136 | 20120403 |
| IL228762 A0 | 20131231 | IL20120228762 | 20120403 |
| IN09533DN2013 A | 20141219 | IN2013DN09533 | 20131105 |
| JP2014512813 T2 | 20140529 | JP20140502961T | 20120403 |
| JP2016185157 A2 | 20161027 | JP20160122350 | 20160621 |
| JP6066496 B2 | 20170125 | JP20140502961T | 20120403 |
| KR20140043072 A | 20140408 | KR20137029525 | 20120403 |
| MX2013011695 A1 | 20140527 | MX20130011695 | 20120403 |
| MX342194 B | 20160920 | MX20130011695 | 20120403 |
| PE04852014 A1 | 20140504 | PE20130002201 | 20120403 |
| PH2015502049 A | 20151116 | PH20150502049 | 20150911 |
| RU2013149575 A | 20150520 | RU20130149575 | 20120403 |
| RU2591722 C2 | 20160720 | RU20130149575 | 20120403 |
| US2014199914 AA | 20140717 | US20120110323 | 20120403 |
| US2016249535 AA | 20160901 | US20160148105 | 20160506 |
| US9357752 BB | 20160607 | US20120110323 | 20120403 |
| WO12135940 A1 | 20121011 | WO2012CA00288 | 20120403 |

**Probable Assignee:** BEE VECTORING TECHNOLOGY INC

**Assignee(s):**(std)**:** BEE VECTORING TECH INC ; BEE VECTORING TECHNOLOGY INC ; BI VEKTORING TEKNOLODZHI INK ; COLLINSON MICHAEL HOWARD D HEARN ; KEVAN PETER G ; SUTTON JOHN CLIFFORD ; MASON TODD GORDON

**Inventor(s):**(std)**:** CLIFFORD SUTTON JOHN ; COLLINSON MICHAEL HOWARD D HEARN ; GORDON MASON TODD ; HEARN COLLINSON MICHAEL HOWARD D ; JOHN CLIFFORD SUTTON ; KEVAN PETER G ; MASON TODD GORDON ; MICHAEL HOWARD D HEARN COLLINSON ; PETER G KEVAN ; SUTTON JOHN CLIFFORD ; TODD GORDON MASON ; SATTON DZHON KLIFFORD ; MEJSON TODD GORDON ; KOLLINSON MAJKL GOVARD D KHERN ; KEVAN PITER DZH

**Agent(s):** BERESKIN AND PARR LLP SENCRL SRL; SARGENT Y KRAHN; DR WEITZEL AND PARTNER; BERESKIN AND PARR SENCRL SRL; BERESKIN AND PARR LLP S E N C R L S R L

**Designated states:** AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

**International class (IPC 8–9):** A01G7/06 A01K A01K47/00 A01K47/06 A01K51/00 (Advanced/Invention); A01K51/00 (Core/Invention); A01K (Subclass/Invention)

**CPC:** A01K51/00 A01G7/06 A01K47/06

**European class:** A01K47/06 A01K51/00

**US class:** 1/1 449/1 449/2 449/20 449/21

Classification Explorer

**Cited documents:** WO11097749 A1, WO11026983 A1, WO10136599 A2, WO10036599 A2, WO02094014 A1, US6306386 BA, US5989100 A, US5989100, US5348511 A, US5348511, US534851 A, US5211597 A, US5189100 A, US4594744 A, US3069702 A, US3034949 A, US2485879 A, US2232343 A, US2011280839 AA, US2007224913 AA, US2007218804 AA, US2004219863 AA, US2004077291 AA, US05989100, US05348511, RU2156570 C2, RU2024223 C1, RU2024223, JP6169663 A2, JP6169663, JP6141717 A2, JP6141717, JP2001169681 A2, JP2001169681, JP06169663, JP06141717, GB1470385 A, DE10054048 A1,

**Forward Citations:** WO14117278, US9526233, US2015359204,

**Abstract:**
Source: US2014199914A A tray for positioning in an exit path of a bee hive comprises a base, a bee entrance end, and a bee exit end. Spaced apart side walls extend upwardly from the base. The sidewalls extend generally lengthwise between the bee entrance end and bee exit end. A plurality of posts extend upwardly from the base and are positioned between the bee entrance end and the bee exit end. The posts are generally circular in cross–section. The posts act as obstacles around which the bees must walk to reach the bee exit end from the bee entrance end.

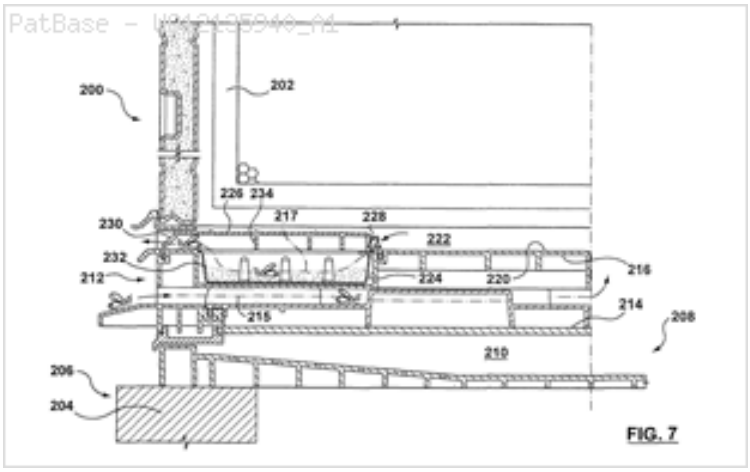


FIG. 7

0) US2211094A – STATISTICAL CARD COMPARING MACHINE

**2) Family number: 20965545** (US2211094A) © PatBase

**Title:** STATISTICAL CARD COMPARING MACHINE

**Priority:** US19380228381 19380903

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| FR859833 A | 19401230 | | 19390901 |
| GB546590 A | 19420721 | GB19390023597 | 19390816 |
| GB546602 A | 19420721 | GB19410000997 | 19390816 |
| GB546603 A | 19420721 | GB19410001705 | 19390816 |
| US2211094 A | 19400813 | US19380228381 | 19380903 |

**Probable Assignee:** REMINGTON RAND INC

**Assignee(s):**(std)**:** REMINGTON RAND INC

**Inventor(s):**(std)**:** BRAUN KARL J

**International class** (IPC 1–7)**:** G03B27/32 G06F7/00 G06F7/02

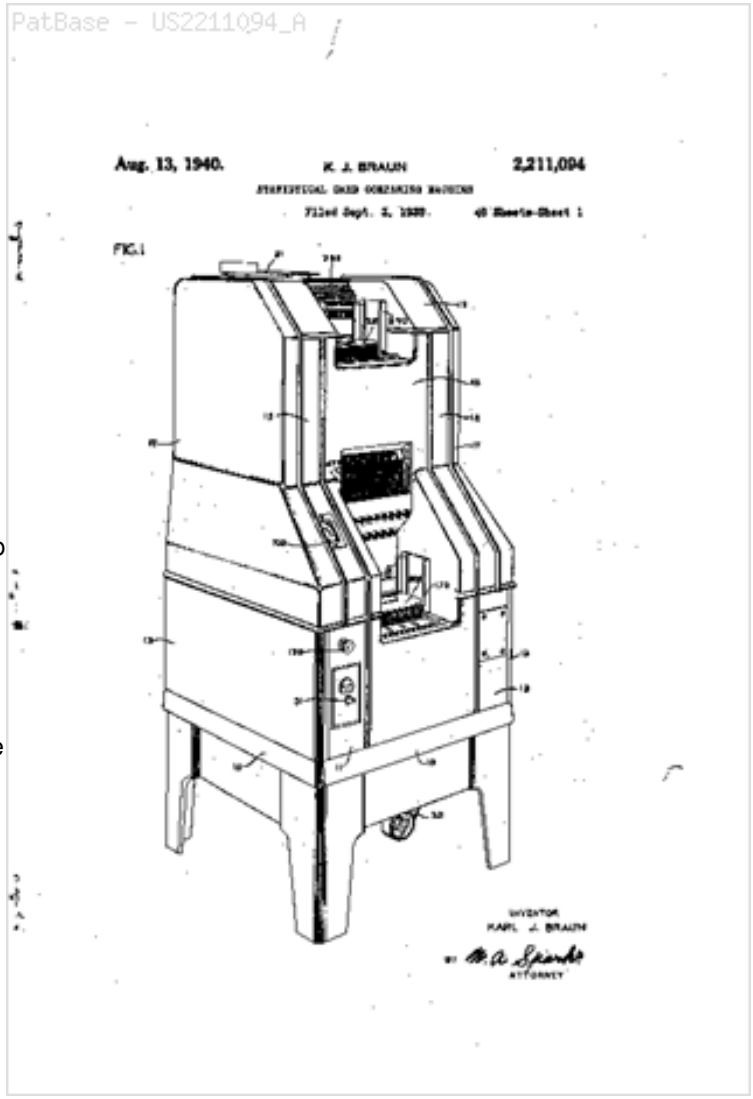
**CPC:** C01B21/082

**US class:** 234/27 234/30 235/431

Classification Explorer

**Forward Citations:** US3253462, US2976724, US2950005, US2949225, US2910228, US2866550, US2751985, US2702629, US2648222, US2603416, US2506463, DE971069, DE1187123,

**Abstract:**
Source: GB546590A [Class 106 (i)] [Also in Group VIII] A machine of the kind comprising means for sensing perforation patterns in master and detail cards, means for making a set–up of the master and pattern, separate pockets for receiving master and detail cards separate means for conveying master and detail cards to their receiving pockets, deflecting means for each conveying means arranged when operated to prevent the passing of cards to their respective pockets includes the combination with means for making a direct comparison between a perforation pattern sensed from a detail card and the contemporaneous setup made from a master card of means under the control of the comparing means to operate both said deflecting means when the result of the comparison is disagreement. The card feeding and comparing mechanism may be similar to that described in Specification 510,910, [Group VIII], and the driving and c. mechanism similar to that described in U.S.A. Specification 2,044,119. Master cards are fed singly from a box 290, Fig. 25, by a picker 292 into a sensing space between perforated plates 330, 331 against a stop 335 and whilst therein their perforations are sensed by a reciprocating pin box 360, of which certain pins located opposite to perforations in the card are locked in downwardly displaced position by slides 362 so that corresponding pins 395 in the reading retaining pin–box are also downwardly displaced and locked by slides 397, the displaced pins 395 in turn displacing pins 435 in the master card comparing pin assembly 425. Detail cards are fed singly from a box 170, Fig. 26, by a picker 172 into a sensing space between plates 220, 221 against a stop 265 and sensed by a reciprocating pin assembly 226, of which the displaced pins displace other pins 250, translator pins 260 and finally pins 455 in the detail card comparing pin assembly 445. The displaced comparing pins 435 and 455 interact through comparing levers 460 having forked ends engaging projections 464, 466 of smaller diameter than the forks so that a displacement of a pin 435 will transmit through a lever 460 only a partial displacement of a pin 455, and. vice versa; other projections 472, 474 coact with cam points 471, 473 in slots on comparison slides 470 and unless the perforation columns in the compared cards correspond one or more of the projections 472, 474 will remain located on a cam point or points 471, 473 causing comparison slide 470 to be held displaced to the front of the machine with the result that the wide part of an interponent bar 476 in its raised effective position will prevent the free rearward swing of a bail bar 640. The cams controlling the feeding, punching, sorting and stopping of the machine are mounted on a sleeve 600, Fig. 60, to which are keyed two ratchets 605, 615 each with four teeth and four dwells arranged staggered and adapted to be engaged by pawls 608, 618 mounted on levers 610, 620 so disposed that normally pawl 608 engages a dwell on ratchet 605 and pawl 618 is held out of engagement with ratchet 615 by a pin 623 on pawl 608. When as the result of a disagreement between compared master and detail cards bail 640 is unable to complete its rearward swing as shown in Fig. 60 the bell crank lever 639 prevents downward movement of lever 610 on the next downward movement of push rod 625 and lever 620 moves down alone causing pawl 618 to become free of pin 623 and later to engage a tooth on ratchet 615 and then on the next rise of push rod 625 to rotate the control cam sleeve 600 through one step. Master card picker operating link 294 is operated as shown in Fig. 32 by a bell crank 299 and slide 301 moved forwardly by a cam 190 and rearwardly by a spring 303 detail card picker operating link 174 is operated by an arm 177 and slide 179 moved forwardly by cam 190 and rearwardly by spring 303; slide 301 can be held out of action by engaging a pin 304 thereon with a latch 305 on a rock shaft 195 and slide 179 by engaging a pin thereon with a second latch 194 on rock shaft 195. For this purpose shaft 195 is rocked by a crank and vertical link 647 adapted to be operated through levers and links by one or more of the cams on the control cam sleeve 600, link 647 in its high position locking feed slide 179 allowing master card feeding only and in its low position locking feed slide 301 allowing detail card feeding only and in its intermediate position locking neither feed slide and allowing simultaneous feeding of both master and record card. The various control cams on sleeve 600 are referred to later. Punching mechanism.–In many types of operation the entire perforation pattern in the master card is punched in the detail card by mechanism including a removable punch translator 485, Fig. 50, the pins 490 of which transfer the displacements of the master card comparing pins 435 to a reciprocal set pin box 495 with which reciprocates a plate 516 carrying punch pins 517 so that the detail



card which has been passed to a punch space between two plates 520, 523 is perforated to agree with the master card. If certain columns of data are not to be transferred the requisite keys 385, Fig. 25, are set in their locking positions. Perforation may take place in the event of agreement of designation data in corresponding columns of master and c. record cards for which the requisite interponent 476 has been set in elevated position and prevented when there is disagreement. The punch translator 485 is placed in position only when detail cards are to be punched. Feed control mechanism.–Five feed control cams are mounted on the control sleeve 600 which as set out above is rotated through 45 degrees when a disagreement is sensed by the comparison mechanism each of which cams may be rendered operative by lever mechanism operated by projecting lugs on an equal number of discs on a parallel sleeve 702, Fig. 32, settable by an operation selector dial at the front of the machine. One of these control cams is in the form of a plain disc 710, Fig. 32, engaged by a roller 711 on a lever 712 carried by another lever 714 and connected by a link 715 to an arm of a shaft 650 having another arm 648 connected to the link 647 controlling the locking of the feed slides. This feed control cam or ring 710 is of such diameter as to effect locking of neither feed slide and permits master and record cards to be fed simultaneously both on agreement and disagreement since although roller 711 is held in contact with cam 710 by the projection 717 on operation selector disc 718 rotation of the concentric cam 710 will have no influence on link 647. Other cams on sleeve 600 may be operative during this type of feeding to effect an agreement or disagreement card sorting, card punching, or stopping of the machine to insert extra cards. In addition to feed cam 710 four other feed control cams mounted on sleeve 600 may be caused to operate the link 647 and are rendered operative by the selector dial. All five feed cams are shawn in Fig. 69. The second cam 720 has four high dwells of a height permitting simultaneous master and detail card feeding on agreement and four lower dwells causing detail card feeding only on disagreement or vice versa since as shown in Fig. 69 this cam has a second key way for setting it displaced through 45 degrees on sleeve 600. Also on a low part of cam 720 becoming operative a rearward arm 655, Fig. 70, releases a shoulder 417 on a catch 416 from the arm 418 allowing the latter to be lifted by push rod 422 without raising arm 415 and rotating shaft 412 whereby operation of the retract bar 405, Fig. 25, by the link 410 is prevented and the set–up of the last fed master card reading retaining pins 395 is retained until an agreeing detail card is sensed whereupon sleeve 600 is rotated to bring a high dwell of cam 720 into operation. The third feed control cam 730 is a concentric ring of smaller radius causing detail card feeding only both on agreement and disagreement, the set–up by the master card reading retaining pins being maintained. The fourth feed control cam 740 has four low dwells of the radius of disc 710 causing simultaneous master and detail card feeding on agreement and four high dwells which on disagreement lift link 647 to its highest position causing master card feeding only. Since the last sensed detail card has to be retained in the sensing space until a corresponding master card is again sensed the card stop 265, Fig. 42, is held in its lower closed position all the time a high dwell on cam 740 is effective by a hook 660 on an arm 649 on shaft 650 engaging lever arm 281. The fifth feed control cam 750 has low dwells of same radius as the highs of cam 740 causing detail radius a cam disc 730 and high dwells of same card feeding only on agreement and master card feeding only on disagreement, the low dwells also causing retention of the set–up of the master card reading retaining pins and the high dwells also causing detail card stop 265 to be held closed. Cams 740 and 750 have second key ways at 45 degrees for adjustment in sleeve 600 to effect above operations on agreement and disagreement or vice versa. Sorting control mechanism.–Referring to Fig. 25 the master cards may be sorted into a rear box 25 or into an eject box 26 by operating a deflector 680 and the detail cards into a rear box 27, 27a, or into an eject box 28 by operating a deflector 690. These deflectors may be operated to eject master cards and detail cards for which there are no detail cards or master cards with corresponding designation punchings and are controlled by a cam 780, Fig. 71, with four low dwells and four high dwells such that when sleeve 600 is rotated bringing a high dwell into contact with roller 781 on bell crank 782 deflector 680 is raised by link 683 and deflects a d

0) US2012077412A – HIVE–MOUNTED DISSEMINATOR DEVICE

**3) Family number: 43586732** (US2012077412A) © PatBase

**Title:** HIVE–MOUNTED DISSEMINATOR DEVICE

**Priority:** EP20100757737 20100529 GB20090009172 20090529 GB20100006909 20100426 WO2010EP57508 20100529

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| AU2010252940 AA | 20101202 | AU20100252940 | 20100529 |
| CA2763505 AA | 20111124 | CA20102763505 | 20100529 |
| DE602010014256 D1 | 20140424 | DE201060014256T | 20100529 |
| DK2434871 T3 | 20140526 | DK20100757737T | 20100529 |
| EP2434871 A2 | 20120404 | EP20100757737 | 20100529 |
| EP2434871 B1 | 20140312 | EP20100757737 | 20100529 |
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| GB201006909 A0 | 20100609 | GB20100006909 | 20100426 |
| MA33301 B1 | 20120502 | MA20110034393 | 20111128 |
| MX2011012740 A1 | 20120306 | MX20110012740 | 20100529 |
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| US2012077412 AA | 20120329 | US20100321348 | 20100529 |
| WO10136599 A2 | 20101202 | WO2010EP57508 | 20100529 |
| WO10136599 A3 | 20110120 | WO2010EP57508 | 20100529 |

**Probable Assignee:** BIOBEST BELGIUM NV

**Assignee(s):**(std)**:** ATLAS INTELLECTUAL PROPERTY ; BIOBEST BELGIUM NV ; JACQUES YANN BRUNO LOIC ; JANS KRIS CYRIEL JOHAN ; MOMMAERTS VEERLE ; UNIV BRUXELLES ; PUT KURT HANS ; SMAGGHE GUY ; WAECKERS FELIX LEOPOLD ; STERK GUIDO MARIO KAREL MICHEL ; WACKERS FELIX LEOPOLD

**Assignee(s):** VRIJE UNIVERSITEIT BRUSSEL

**Inventor(s):**(std)**:** LEOPOLD WACKERS FELIX ; LOIC JACQUES YANN BRUNO ; MICHEL STERK GUIDO MARIO KAREL ; MOMMAERTS VEERLE ; PUT KURT HANS ; SAMGGHE GUY ; SMAGGHE GUY ; STERK GUIDO MARIO KAREL MICHEL ; VEERLE MOMMAERTS ; WACKERS FELIX LEOPOLD ; WAECKERS FELIX LEOPOLD ; GUY SMAGGHE ; HANS PUT KURT ; JACQUES YANN BRUNO LOIC ; JANS KRIS CYRIEL JOHAN ; JOHAN JANS KRIS CYRIEL

**Inventor(s):** KRIS CYRIEL JOHAN JANS ; KURT HANS PUT ; FELIX LEOPOLD WAECKERS ; GUIDO MARIO KAREL MICHEL STERK ; GUY SAMGGHE ; YANN BRUNO LOIC JACQUES

**Agent(s):** SHELSTON IP; SHELSTON IP PTY LTD; SIM AND MCBURNEY; AIRD AND MCBURNEY LP; LAENEN BART ROGER ALBERT; LAZCANO JESUS

**Designated states:** AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

**International class (IPC 8–9):** A01K47/06 A01K51/00 (Advanced/Invention)

**CPC:** A01K47/06 A01K51/00

**European class:** A01K47/06 A01K51/00

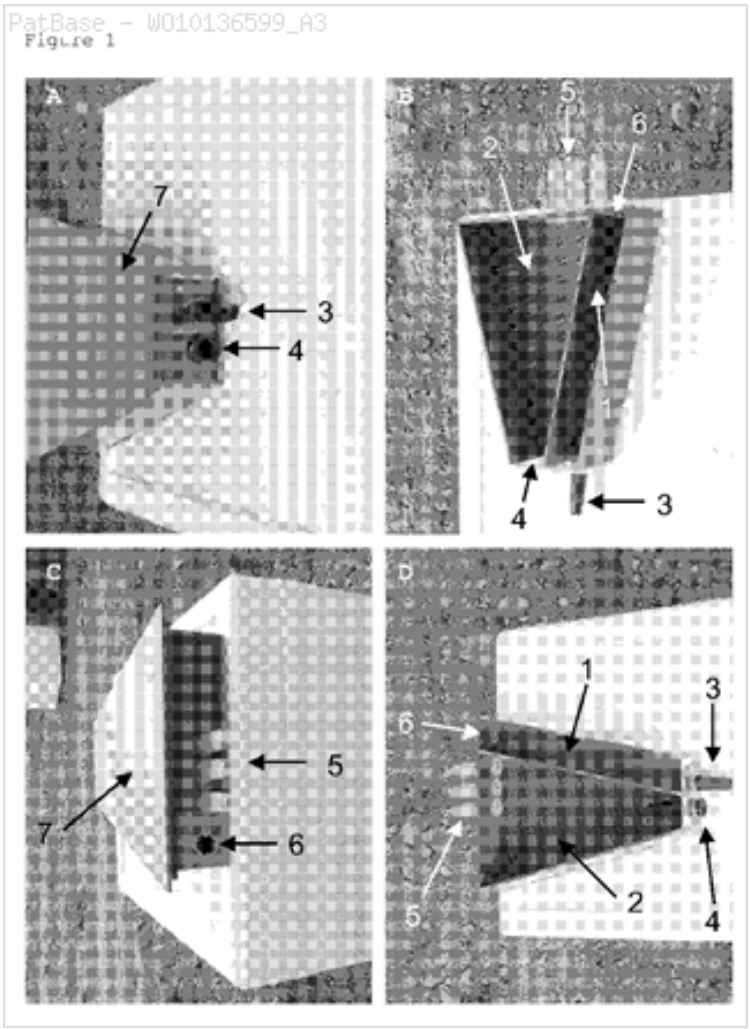
**US class:** 449/20 449/20P

Classification Explorer

**Cited documents:** WO02094014 A1, US993060 A, US7310907 BB, US6468129 BA, US5989100 A, US5348511 A, US430104 A, US4229848 A, US4158900 A, US3371360 A, US3200419 A, US2435951 A, US2008280528 AA, US2007224913 AA, GB1470385 A,

**Forward Citations:** WO12135940, US9526233, US9380777, US9357752, US9332752, KR101353920, EP2693871, EP2693871, CN103687481,

**Abstract:**
Source: US2012077412A The present invention relates to the dissemination of biological control agents or other substances through the use of bees, in particular bumblebees. It relates to a disseminator device, installable in or in connection to the hive, and which contains biological control agents or other substances which are picked up, carried and disseminated by the bees when leaving the hive.



0) AU2008201117A – BEE HIVE

**4) Family number: 42396325** (AU2008201117A) © PatBase

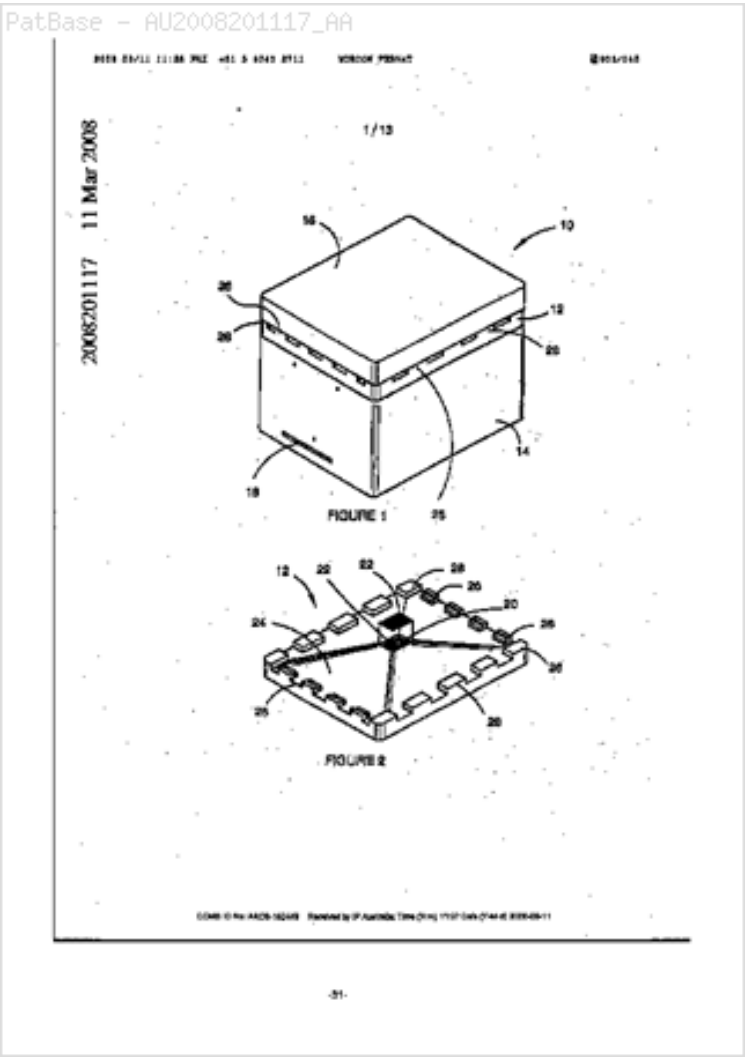
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|---|---|
| **Title:** | Bee Hive |
| **Priority:** | AU20070901336 20070314 AU20080201117 20080311 |

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| AU2008201117 AA | 20081002 | AU20080201117 | 20080311 |

| | |
|---|---|
| **Probable Assignee:** | HASSON SEAMUS |
| **Assignee(s):**(std)**:** | HASSON SEAMUS |
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| **Inventor(s):** | SEAMUS TERRENCE HASSON |
| **Agent(s):** | MORCOM PERNAT |
| **International class (IPC 8–9):** | A01K47/00 A01K47/06 (Advanced/Invention); A01K47/00 (Core/Invention) |
| **CPC:** | A01K47/00 A01K47/06 |
| **European class:** | A01K47/00 A01K47/06 |
| Classification Explorer | |
| **Forward Citations:** | WO14005179, US9320264, FR3042384, |

**Abstract:**
Source: AU2008201117A 2008 03/11 11:28 FAX +61 3 9543 2711 MORCOM PERNAT Ilj 31/045 00 28 Abstract A bee hive enclosure (10) comprising, a base (111); a wall (14) extending upwardly from the base, surrounding a hive Cavity for I> bees; a lid and 0 an access opening (18) through which bees can enter or exit the enclosure, 00 10 wherein the bee hive enclosure includes moisture/humidity control means o chosen from at least one of, a sloping base (111,130) arranged to direct liquid accumulating on the base to flow through an outlet and an upper cavity defined between a spacer member (12) and the lid (16) when it is mounted on the spacer member, the upper cavity being in fluid communication with the interior cavity of the bee hive enclosure through a breathing opening (20) in the spacer and ventilation means (26) associated with the upper cavity and the external environment whereby moist air may rise from the bee hive enclosure through the upper cavity and out of the ventilation means. 2008 03/11 11:28 FAX +461 3 9543 2711 RCMPNAIi03/4 MORCOM PERNAT Q 032/045 00 1/13 26 00 18/ Figure 1 26 24 Figure 2



0) SU882492T – ABOVE–FRAME FEEDING DEVICE FOR BEES

**5) Family number: 6423182** (SU882492T)

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**Title:** ABOVE–FRAME FEEDING DEVICE FOR BEES

**Priority:** SU19792765877 19790515

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| SU882492 A1 | 19811123 | SU19792765877 | 19790515 |
| SU882492 T | 19811123 | SU19792765877 | 19790515 |

**Probable Assignee:** PASECHNICHENKO NIKOLAJ A

**Assignee(s):**(std)**:** PASECHNICHENKO NIKOLAJ A

**Assignee(s):** PASECHNICHENKO NIKOLAJ A SU

**Inventor(s):**(std)**:** PASECHNICHENKO NIKOLAJ A

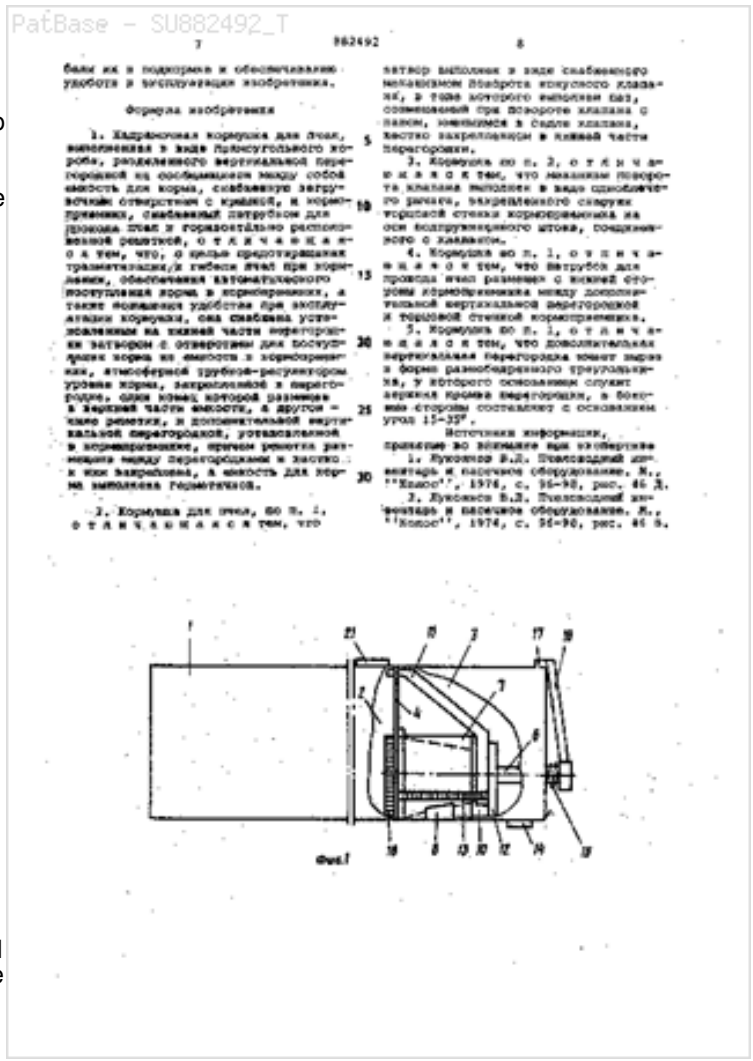
**Inventor(s):** PASECHNICHENKO NIKOLAJ A SU

**International class (IPC 8–9):** A01K53/00 (Advanced/Invention); A01K53/00 (Core/Invention)

**International class (IPC 1–7):** A01K53/00

Classification Explorer

**Abstract:**
Source: SU882492T Invention relates to beekeeping inventory, and specifically to nadramochnym feeders having application in feeding the bees sugar or honey si Ropa fed to replenish winter fodder stocks or replacement pad evogo–feed when giving seven bee m motivating and therapeutic feeding, and can be used on state farms, collective farms apiaries and bee apiaries enthusiasts. Known nadramochna schichnogo feeder type in which corridor for the passage of bees is in the middle of the wall and its height is lower degree knock feeders that provides Prokhorov bees v.neposredstvenno main compartment, where lies food (sugar syrup). In the same department placed raft lattice 1. However Dunn feeder with imeyuschimis rafts does not meet modern requirements of beekeeping as rafts associated with the saturation of their contents feeders, jamming, sticking them to the inner portion of the trough often deprived of their buoyancy, which leads to malfunction last 1ey and bees trapped under the raft, doomed to destruction, especially when filling feeders fertilizing (sugar syrup). Closest to the proposed is nadramochna feeder for the bees, having a body in the form of a rectangular box, divided by a vertical partition for communicating between a container for food, equipped with feeding hole with krshikoy and kormopriemnik, supply pipe for the passage of bees and a horizontal grille, through which the bees have access tt mu {2 cor. The main disadvantage of the known nadramochnoy feeders is that. That large mass of bees die when feeder is filled with sugar syrup, which tends to weaken; bee colonies as well. general and all the families of the apiary. Sunken in the manger and pchelyrazlagayuts contaminate sugar syrup that is a source of infection for the remaining bees. Further, the structure is



leaking trough, so that the heat generated by the bees inside ul, feeders out through the slits in the atmosphere that clearly harms the bee family. This is especially skazyvaets in the spring, when the presence of heat in the hive is particularly important for the rapid build–up of young bees, the warmth chvl is a major positive factor. The purpose of the invention – to prevent trauma and death of bees in korKshenii, providing automatic feed arrival kormopriem nickname, as well as increased convenience when eksgshuatatsii feeders. This goal is achieved by the fact that Korg., Made in the form of a rectangular box, divided by a vertical partition for communicating between a container for food, feed opening fitted with a lid, and kormopriemnik – equipped with pipe for the passage of bees and Mr. Hor experimentally located bars, additional tively set the shutter at the bottom of the partition with an opening for the arrival of the vessel in the feed forage receiver, barometric tube–feed regulator level enshrined in the septum, one end of which is substituted with time at the top of the tank and other goy – below the grille, and additional vertical partition is mounted on a kormopriemnike and the lattice placed between the baffles and gesture to them fixed, and the capacity to feed made airtight. When the shutter is designed as having a mechanism for turning cone valve, water in the body which is a groove, combines fourth when turning the valve with a groove in the valve seat imeyuschims rigidly secured to the lower portion of the partition. Furthermore, Pan stem turning mechanism is in the form of a single–arm lever, fixed on the outside of the end wall on the axis of the spring–loaded kormopriemnika rod connected with the valve, wherein the outlet for passage pche placed on the lower side kormopriem nick between the vertical wall and the additional end wall kormopriemnika. Furthermore, additional vertical partition has a recess in the shape of an isosceles triangle, whose upper edge osnovaniem.sluzhit septum and lateral storog us comprise a base angle of 15–35. "Fig. 1 shows a nadramoch Auto Feeder for bees partial cutaway of its wall, general view; Fig. 2 – the same, right side; fig.Z at – the same, top view, Fig. raerez A–A in Figure 3; Fig. s – p Res B–B in Fig. 3 (partial vfe Zom partitions).; Fig. b – the gap B–B in Fig. 3. Nadramochna Auto Feeder for bees comprises a housing 1 with the hermetic vessel 2 to be filled with supplementary fertilization (sugar syrup) and kormootdel 3, separated by a vertical partition wall 4 which at the bottom has kormozatvor configured as a conical valve 5 to the rod 6, 7 arranged in the seat, the latter is fixed on the partition zhostko 4. seat bottom portion 7 has a recess 8 which is aligned with the slot 9 formed in the tapered valve 5. When combining these kormozatvore grooves formed in a common channel serving for the passage of feeding (syrup or other liquid) from a hermetic container 2 in kormopriemnik 10.For ADF feeding and supporting its desired level 10 in kormopriemnike aspirated tube 11 there is connected by one end to the hermetic container 2 through the upper part of the partition 4 and the other end is fed to the

middle kormopriemnika 10, wherein the gap between the end of the tube 11 and atmospheric kormopriemnika lower base 10 is formed in the range of 4–6 mm, which represents the desired level of feed in kormopriemnike 10. latter has a septum 12, the sides of which are made vshe an inclined plane with respect to its middle part, at 15–3, the trough ensures trouble–free during the emergency ul situation (eg, a beehive filled with cor ushkoy nakrenils in one direction or another by 15–35 and even 90, with sugar syrup feeders not vylets, thereby not applied harm bee apiary seven meters, which can not reach a certain manger). Stselyu uncontaminated feed, for example, the bodies of bees and convenience for taking a podkorm1 and bees kormopriemnik 10 is provided with a mesh ladder 13 with a thickness of 1 mm and 2–2.5 mm diameter holes. Gangway is rigidly fixed between 4 and 12 partitions, and installing it directly above the surface level of feeding, the depth of which is made in the range of 4–6 mm. Kormootdela lower base 3 has an opening 14 to 10 kormrpriemniku for bees. Cone valve 5 is pressed against the seat by a spring 7 15 placed at one end of the rod used, while it abuts one end wall of the housing end portion 1, and–other–g single–arm lever 16, the latter serves to rotate the cone valve in the saddle 7. stopper formed on an upper cha.sti single–arm lever 16 to rotate the cone valve 5 in the saddle 7.. only in its extreme positions. Left extreme position single–arm lever 16 provides a combination of saddle slot 8 with slot 7 9 5 cone valve, thereby forming one ob1tsy channel. Right position single–arm lever 16 disunite a slot 8 with slot 7 Seat 9 cone valve 5 with a common channel loses its device. For arrival cleaner feed in kormopriemnik 10 before kormozatvorom a filter 18 in a grid. For fertilizing filling and sealing of the trough and feeding the filtration of extraneous predmtov, clogging guides sugar syrup on top of the hermetic vessel 2 is formed with a neck 19, a filter 20 and a lid 21, the latter is provided by sealing the container 2. For visual observation occurring in schim kormootdele 3, in its upper part, holds smtrovoe window 22 made of transparent material such as plexiglass. The entire device may be manufactured feeders such as plastic or sheet metal food. feeder operates as follows. Pass 14 kormootdela 3 feeders in alignment with the opening potolka.ul. Then, single–arm lever 16 is moved to the right end position to Snopa restrictor 17 in the housing 1 feeder. At this point, the saddle 7 is moved, and the valve cone 5, and the grooves 8 and 9 are disconnected to and kormozatvora common channel for some time loses its device. / By this implementation of the dressing kormoeatvora hermetic container 2 does not flow into kormopriemnik 10 19 Thereafter, the neck is released from the lid 21, and seal the container 2 is filled with supplementary fertilization (sugar syrup or other liquid) which passes through the filter 20 is cleaned of foreign objects and after filling the container lid 21 fertilizing neck 19 is made to ensure a hermetic vessel 2. Then single–arm lever 16 is moved to the left

position kraynee to stop limiter 17 in the housing 1 trough this conical valve seat 5 in 7 moves in the working position in alignment this groove Seat 7 8 9 slot cone valve 5. This combination creates one of slots kormozatvora common channel on which of the hermetic container 2 passes through the dressing 18 in the filter kormopriemnik 10 for bees, where the level of feeding comes to the bottom plane of the ladder 13. prdkormki At this level of the lower end of the atmospheric tube 11 is connected to the food source, which closes the opening of the tube. . By this arrangement of the atmospheric air intake pipe 11 in a hermetically sealed container 2 is stopped, while in the hermetic container 2 is generated pressure below atmospheric pressure, which leads to stop the flow of feed from a channel 10 for kormopriemnik bees. Thus, the dressing is always situated directly beneath the ladder 1 bees coming from ul pass through the passage 14 to 3 kormootdela kormopriemniku 10 for bees, where due to a rigidly fixed ramp 13 and a constant level in the feed for 10 kormopriemnike bees provided favorable conditions for taking a feeding bees, the same and contributes to a constant temperature without continuous Cove in kormootdele 3. As reduction in feeding kormopriemnike 10 through the hole vacated by feeding atmospheric air enters the tube 11 in an airtight container 2, where the atmospheric pressure is reduced, which ensures the supply feeding from a hermetic container 2 from channel kormozatvora v.kormopriemnik 10. Due to a predetermined level in the feed opening 10 kormopriemnike atmospheric tube 11 is closed, the air in the same airtight container 2 is not received, and ensures that stop the flow of feed in kormopriemnik 10 for bees. admissions process feed in kormopriemnik 10 occurs automatically to polnogo.osvobozhdeni hermetic container 2 from feeding. Having kormozatvorom hermetic container with the feeder is completely eliminated in the access zone immediate bee feeding located in the hermetic container that allows to reduce the death of bee 100 percent as compared with the device known feeders. In this economy the proposed feeders provided with more efficient use of feed. ladder rigidly mounted kormopriemnike provides cleanliness dressing from soiling her corpses of bees is very important to protect bee health from infectious diseases. Implementation automatically feeds and feeding Chi constant level in kormopriemnike for bees using kormozatvora and atmospheric tube connecting kzdih airtight container for kormopriemnikom bees leads f 100 percent – from Nome sohranenik bees, their destruction in feeding and provisioning facilities in operation of the invention. CLAIMS 1. Nadramochna feeder for bee made in the form of a rectangular, divided by a vertical partition communicating between a container for feed, with an opening provided with a lid zagruzsP1N1M and kormopriemnik provided with nozzle for passage of bees and horizontally positioned grating, characterized in that, in order to prevent trauma / death of bees and when feeding, automatic: feed

kormopriemnik arrival, as well as the operation of convenience povsheni feeders, it is provided on the bottom of ustanovlennsh partition gate with an opening for postupJ | eni feed of eknsosti in korkyupriemnik, atmospheric tube –layer feed regulator, in eakreplenyoy partition, one end of which is situated in the upper part of the tank, and another lower reoyutki and dopolnitelyoy Kalnoy vertical baffle installed in korkyupriemnike and the lattice meschena times between partitions and rigidly secured thereto, and a container for feed made airtight.. 2. Feeder for bees according to claim I, characterized in that Figure 1 A yes 1B August 13, Yu JZ P IS Shutter is designed as having a mechanism for rotating cone valve, which is made in the body groove aligns with the rotation of the valve with a groove in the valve seat imekitsims rigidly secured to the lower portion of the partition. 3.Kormushka according to claim 2, characterized in that the control valve mechanism is configured as a single–arm lever, fixed on the outside of the end wall on the axis of the spring–loaded kormopriemnika rod connected to the valve. 4.Kormushka according to claim 1, characterized in that the conduit for the passage of bees is placed on the lower side between kormopriemnika additional vertical partition wall and the end kormopriemnika. 5.Kormushka according to claim 1, characterized in that an additional vertical baffle plate has a cutout in the shape of an isosceles triangle whose base is the upper edge of the partition and the sides comprise a base angle of 15–35. Sources of information received into account in the examination of new VD 1.Luko Beekeeping tools and equipment Pasechnoye. M. FKolos, 1974, p. 96–98, Fig. 46 D. 2.Luko new. Beekeeping equipment p Pasechnoye equipment. Moscow, Kolos, 1974, p. 96–98, Fig. 46 B. / 5 Figure 2 «T fmg.Z d

0) US2014271635A – TREATMENT OF CANCER USING HUMANIZED ANTI–CD19 C...

**6) Family number: 57415838** (US2014271635A) © PatBase

**Title:** TREATMENT OF CANCER USING HUMANIZED ANTI–CD19 CHIMERIC ANTIGEN RECEPTOR

**Priority:** US20130802629P 20130316 US20130838537P 20130624 US20140214728 20140315 WO2014US29943 20140315 US20150802629P 20150316

**Family:**

| Publication number | Publication date | Application number | Application date |
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| AU2014236098 AA | 20140925 | AU20140236098 | 20140315 |
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| UY35468 A1 | 20141031 | UY20140035468 | 20140314 |
| WO14153270 A1 | 20140925 | WO2014US29943 | 20140315 |

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**Agent(s):** DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; SMART AND BIGGAR; CARLOS R OLARTE GARCIA; WILDING JAMES ROGER; YAMAZAKI HIROSHI; TOMITA KENJI; TANAKA MITSUO; LAWRENCE LAURIE BUTLER

**Designated states:** AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

**International class (IPC 8–9):** A61K35/14 A61K35/17 A61K35/74 A61K35/76 A61K35/761 A61K38/00 A61K39/395 A61K45/00 A61K48/00 A61P35/00 A61P35/02 C07K C07K14/705 C07K14/725 C07K16/28 C07K16/30 C07K16/46 C07K19/00 C12N1/15 C12N1/19 C12N1/21 C12N15/09 C12N15/11 C12N15/13 C12N15/62 C12N15/85 C12N15/86 C12N5/0783 C12N5/10 C12N5/22 C12N5/783 (Advanced/Invention);
A61K A61P C07K C12N (Subclass/Invention)

**CPC:** A61K2039/505 C07K14/7051 C07K14/70578 C07K16/2803 C07K2317/24 C07K2317/622 C07K2317/73 C07K2319/00 C12N5/0636 C12N2510/02 C07K14/70503 C07K2319/03 C07K2317/565 C07K2317/94 A61K39/395 C07K16/3061

**US class:** 424/133.1 530/387.3 536/23.53

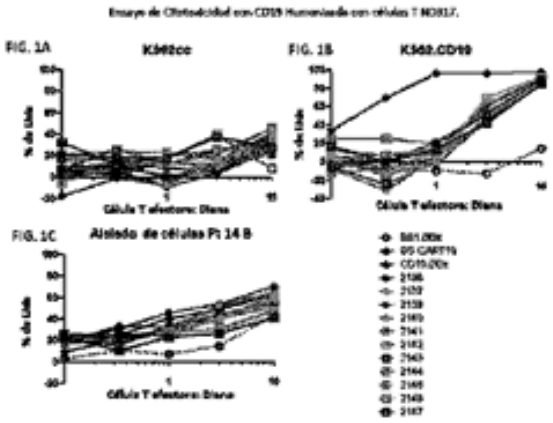
Classification Explorer

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**Forward Citations:** WO17079705, WO17079703, WO17064222, WO17046747, WO17040930, WO17035117, WO17028374, WO17027291, WO17015427, WO17009843, WO16203048, WO16196384, WO16174405, WO16168595, WO16164731, WO16164731, WO16164580, WO16149485, WO16126608, WO16120216, WO16113203, WO16097231, WO16090190, WO16090034, WO16090034, WO16064929, WO16061368, WO16057705, WO16055551, WO16044605, WO16033570, WO16014565, WO16014553, WO16014530, WO15187528, WO15157252, US9573988, US9394368, US2015024482, US2014328812, CN105950645,

**Abstract:**
Source: US2014271635A The invention provides compositions and methods for treating diseases associated with expression of CD19. The invention also relates to chimeric antigen receptor (CAR) specific to CD19, vectors encoding the same, and recombinant T cells comprising the CD19 CAR. The invention also includes methods of administering a genetically modified T cell expressing a CAR that comprises a CD19 binding domain.

PatBase - UY35468_A1




SHEET 1 OF 6

0) US2004180059A – PARENTERAL FORMULATIONS OF A PEPTIDE FOR THE TR...

**7) Family number: 30754300** (US2004180059A) © PatBase

**Title:** PARENTERAL FORMULATIONS OF A PEPTIDE FOR THE TREATMENT OF SYSTEMIC LUPUS ERYTHEMATOSUS

**Priority:** US20030439950 20030114 US20030439950P 20030114 US20040758572 20040114 US20070985068 20071112 WO2004US00955 20040114

**Family:**

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| WO04064788 A3 | 20050324 | WO2004US00955 | 20040114 |
| ZA200506205 A | 20061227 | ZA20050006205 | 20050803 |

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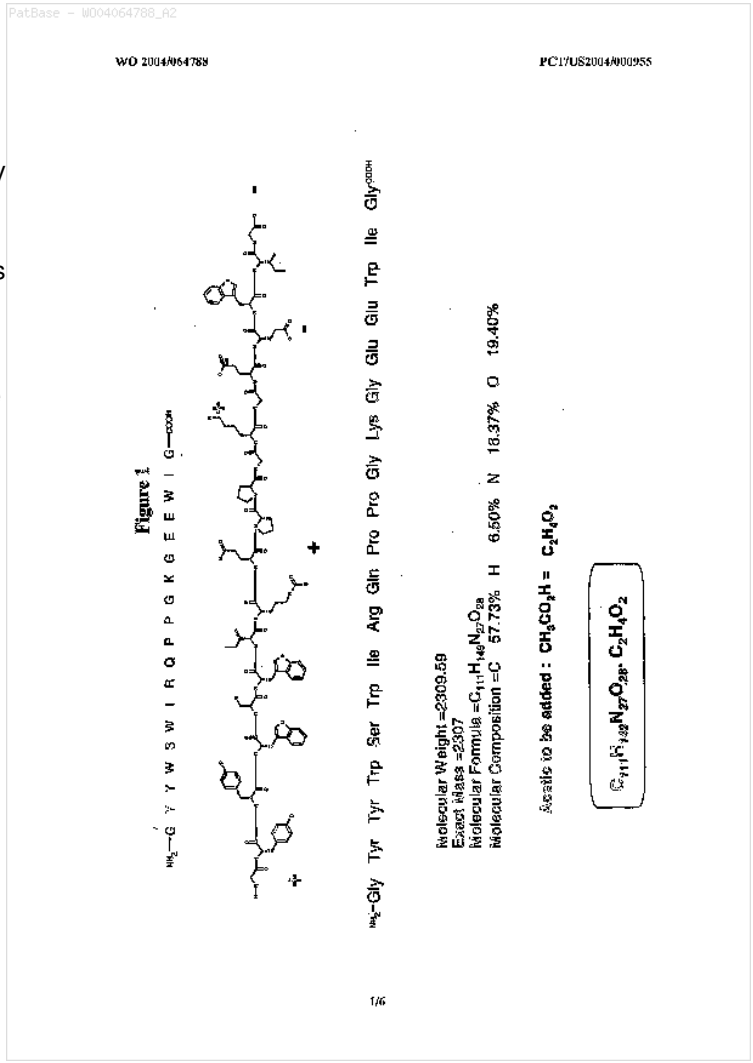
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**Inventor(s):** KLINGER ETR ; COHEN VERED SHARON NAFTALI ESMIRA WEINSTEIN ; COHEN VERED SHARON NAFTALI ESMIRA WEINSTEIN VERA G

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|---|---|
| **Agent(s):** | FB RICE; HEENAN BLAIKIE LLP; SILVANA MARIA LOPEZ DIAZ; JOHN P WHITE COOPER AND DUNHAM LLP; COOPER AND DUNHAM LLP; JOHN P |
| **Designated states:** | AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW |
| **International class (IPC 8–9):** | A61K31/724 A61K31/74 A61K38/00 A61K38/10 A61K39/00 A61K39/38 A61K39/395 A61K47/40 A61K47/48 A61K51/10 A61K9/00 A61K9/19 A61P37/00 A61P37/02 A61P37/06 (Advanced/Invention);<br>A61K38/00 A61K38/10 A61K47/40 C07K7/08 (Advanced/Non–invention);<br>A61K39/395 A61P37/00 (Core/Invention);<br>A61K (Subclass/Invention) |
| **International class (IPC 1–7):** | A61K31/724 A61K38/00 A61K38/10 A61K39/00 A61K39/38 A61K47/40 A61K51/10 |
| **CPC:** | A61K9/0019 A61K9/19 A61K31/724 A61K38/10 A61K47/48969 B82Y5/00 |
| **European class:** | A61K31/724 A61K38/10 A61K47/48W18B A61K9/00M5 A61K9/19 B82Y5/00 |
| **US class:** | 424/184.1 424/184.100P 424/78.08 514/1.1 514/1.100P 514/13 514/20.6 514/20.600S 514/58 514/58S 530/300 |
| Classification Explorer | |
| **Cited documents:** | WO9931066 A1, WO9630057 A1, WO03067848 A1, WO02067848 A2, US7294687 BB, US6613536 BA, US6407079 BA, US6228363 BA, US5997856 A, US5730969 A, US5646131 A, US5376645 A, US5134127 A, US5126249 A, US4656158 A, US2005008634 AA, US2004180059 AA, US2004127408 AA, US2002054872 AA, EP0495049 A1, |
| **Forward Citations:** | WO06027116, WO06027116, US8865868, US7858738, US2010160442, US2009169559, US2008287366, US2008176946, US2008119390, |

**Abstract:**
Source: US2004180059A The subject invention provides a pharmaceutical composition comprising an aqueous carrier; from 0.1 mg/ml to 20 mg/ml of the composition of a pharmaceutically acceptable salt of a peptide having the structural formula NH 2−Gly Tyr Tyr Trp Ser Trp Ile Arg Gln Pro Pro Gly Lys Gly Glu Glu Trp Ile Gly− COOH; and a substituted beta−cyclodextrin in an amount effective to dissolve the peptide in the aqueous carrier, wherein the composition has a pH between 4 and 9, a process for preparation, and a method of alleviating symptoms of systemic lupus erythematosus (SLE) in a human subject comprising administering to the human subject the pharmaceutical composition.



**8) Family number: 57409113** (US2014303140A) © PatBase

**Title:** NOVEL COMPOUNDS AND PHARMACEUTICAL COMPOSITIONS THEREOF FOR THE TREATMENT OF INFLAMMATORY DISORDERS

**Priority:** US20130781174P 20130314 US20140205885 20140312 US20140572870 20141217 WO2014EP54440 20140307 US20150977918 20151222

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| AR095280 AA | 20150930 | AR2014P100893 | 20140312 |
| AU2014231009 AA | 20140918 | AU20140231009 | 20140307 |
| CA2902103 AA | 20150821 | CA20142902103 | 20140307 |
| CN105143221 A | 20151209 | CN201480014005 | 20140307 |
| CO7570493 A2 | 20160408 | CO20150221135 | 20150917 |
| EP2970255 A1 | 20160120 | EP20140708291 | 20140307 |
| HK1219730 A1 | 20170413 | HK20160107731 | 20160704 |
| ID201701253 A | 20170224 | ID2015P0005462 | 20140307 |
| IL240531 A0 | 20151029 | IL20140240531 | 20140307 |
| IN07322DN2015 A | 20160108 | IN2015DN07322 | 20150819 |
| JP2016512208 T2 | 20160425 | JP20150562040T | 20140307 |
| KR20150128995 A | 20151118 | KR20157029122 | 20140307 |
| MX2015011077 A1 | 20151029 | MX20150011077 | 20140307 |
| PH2015502055 A | 20160118 | PH20150502055 | 20150911 |
| RU2015143430 A | 20170418 | RU20150143430 | 20140307 |
| SG11201507224R A | 20151029 | SG20151107224 | 20140307 |
| TW201444835 A | 20141201 | TW20140108497 | 20140311 |
| US2014303140 AA | 20141009 | US20140205885 | 20140312 |
| US2015111872 AA | 20150423 | US20140572870 | 20141217 |
| US2016244443 AA | 20160825 | US20150977918 | 20151222 |
| US8993590 BB | 20150331 | US20140205885 | 20140312 |
| US9249141 BB | 20160202 | US20140572870 | 20141217 |
| UY35437 A1 | 20141031 | UY20140035437 | 20140314 |
| WO14139882 A1 | 20140918 | WO2014EP54440 | 20140307 |

**Probable Assignee:** GALAPAGOS NV

**Assignee(s):**(std)**:** GALAPAGOS NV

**Assignee(s):** HECKMANN BERTRAND ; PEIXOTO CHRISTOPHE ; JONCOUR AGNES ; BOCK XAVIER ; BRYS REGINALD CHRISTOPHE XAVIER ; DESROY NICOLAS

**Inventor(s):**(std)**:** BERTRAND HECKMANN ; BOCK XAVIER ; BOCK XAVIER MARIE ; BRYS REGINALD CHRISTOPHE XAVIER ; CHRISTOPHE PEIXOTO ; DESROY NICOLAS ; HECKMANN BERTRAND ; JONCOUR AGNES ; JONCOUR AGNES MARIE ; JONCOUR AGNS ; NICOLAS DESROY ; PEIXOTO CHRISTOPHE ; AGNES JONCOUR ; XAVIER BOCK ; XAVIER BRYS REGINALD CHRISTOPHE

**Inventor(s):** XAVIER MARIE BOCK ; AGNES MARIE JONCOUR ; REGINALD CHRISTOPHE XAVIER BRYS

**Agent(s):** DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; NORTON ROSE FULBRIGHT CANADA LLP SENCRL SRL; MAURICIO PATINO BONNET; BAR GREGORY; ACHMAD FATCHY; HESLIN ROTHENBERG FARLEY AND MESITI PC

**Designated states:** AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG

SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

**International class (IPC 8–9):** A61K31/351 A61K31/357 A61K31/381 A61K31/382 A61K31/397 A61K31/4025 A61K31/41 A61K31/4178 A61K31/422 A61K31/4245 A61K31/425 A61K31/427 A61K31/433 A61K31/4353 A61K31/437 A61K31/444 A61K31/4523 A61K31/4545 A61K31/496 A61K31/506 A61K31/5377 A61K31/541 A61K45/06 A61P11/00 A61P11/06 A61P17/00 A61P19/02 A61P25/00 A61P25/04 A61P25/28 A61P29/00 A61P3/04 A61P3/10 A61P35/00 A61P35/02 A61P37/00 A61P37/02 A61P43/00 A61P9/00 A61P9/10 C07D C07D401/04 C07D417/14 C07D471/04 C07D487/04 C12N9/99 (Advanced/Invention); A61K A61P C07D (Subclass/Invention)

**CPC:** A61K31/496 A61K31/437 A61K31/5377 A61K31/541 A61K31/506 C07D471/04 A61K31/444 A61K31/4545 C07D417/14 A61K45/06

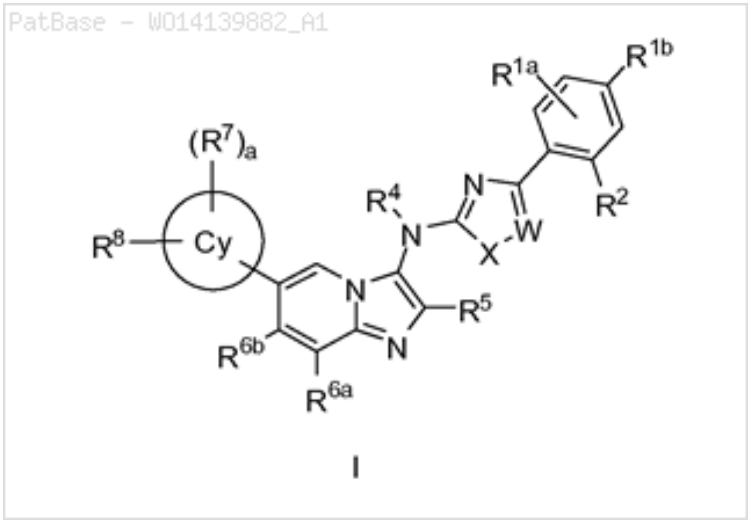
**US class:** 1/1 435/184 514/210.18 514/210.21 514/222.2 514/228.2 514/233.2 514/253.04 514/275 514/300 544/121 544/127 544/3 544/331 544/362 544/58.2 546/121

Classification Explorer

**Cited documents:** WO12166415 A1, WO11054922 A1, WO10063352 A1, WO08138842 A1, US8227603 BB, US2014303140 AA,

**Forward Citations:** WO16197009, US9249141,

**Abstract:**
Source: US2014303140A The present invention discloses compounds according to Formula I: Wherein R1a, R1b, R2, R4, R5, R6a, R6b, R7, R8, W, X, Cy, and the subscript a are as defined herein. The present invention relates to compounds inhibiting autotaxin (NPP2 or ENPP2), methods for their production, pharmaceutical compositions comprising the same, and methods of treatment using the same, for the prophylaxis and/or treatment of diseases involving fibrotic diseases, proliferative diseases, inflammatory diseases, autoimmune diseases, respiratory diseases, cardiovascular diseases, neurodegenerative diseases, dermatological disorders, and/or abnormal angiogenesis associated diseases by administering the compound of the invention.



I

0) DE3718387A1 – BEEHIVE HUMMELNISTKASTEN

**9) Family number: 4674519** (DE3718387A1) © PatBase

**Title:** Beehive

**Priority:** DE19873718387 19870602

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| DE3718387 A1 | 19871008 | DE19873718387 | 19870602 |
| DE3718387 C2 | 19890427 | DE19873718387 | 19870602 |

**Probable Assignee:** SCHWEGLER VOGELSCHUTZGERAETE G

**Assignee(s):**(std)**:** SCHWEGLER VOGELSCHUTZGERAETE G

**Assignee(s):** SCHWEGLER VOGELSCHUTZGERAETE GMBH ; SCHWEGLER VOGELSCHUTZGERAETE GMBH 7060 SCHORNDORF ; SCHWEGLER VOGELSCHUTZGERAETE GMBH 7060 SCHORNDORF DE

**Inventor(s):**(std)**:** PAPENFOTH AXEL

**Inventor(s):** PAPENFOTH AXEL 7060 SCHORNDORF DE

**International class** (IPC 8–9)**:** A01K67/033 (Advanced/Invention); A01K67/00 (Core/Invention)

**International class** (IPC 1–7)**:** A01K67/00

**CPC:** A01K67/033

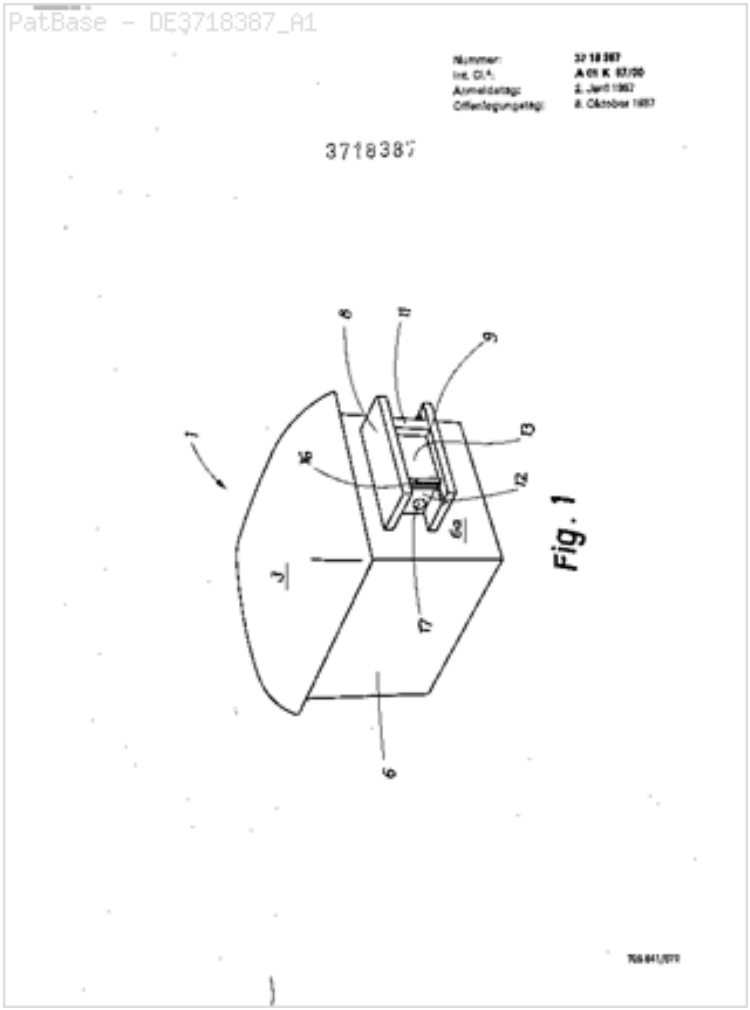
**European class:** A01K67/033

Classification Explorer

**Cited documents:** DE829078, DE7009731, DE608926,

**Forward Citations:** EP0800764, EP0598458, DE4042379, DE4036195, DE4018251, AU713985,

**Abstract:**
Source: DE3718387A1 A beehive has a box−shaped, upwardly open lower part on which a cover is placed. One of the side walls contains an entrance hole, via which the bees can pass into the interior of the hive and which is partly directly filled with natural filling material such as turf, mulch and the like. At least one of the side walls consists of a breathing, climatically compensating material in order to provide a humidity compensation which prevents the filling material from turning mouldy.



0) GB645270A – IMPROVEMENTS IN AND RELATING TO BEE HIVES

**10) Family number: 19578681** (GB645270A)

© PatBase

**Title:** Improvements in and relating to bee hives

**Priority:** GB19470026225 19470927

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| GB645270 A | 19501025 | GB19470026225 | 19470927 |

**Probable Assignee:** CHARLES ANSON SMITH

**Assignee(s):**(std)**:** CHARLES ANSON SMITH

**International class (IPC 8–9):** A01K47/00 (Advanced/Invention); A01K47/00 (Core/Invention)

**International class (IPC 1–7):** A01K47/00

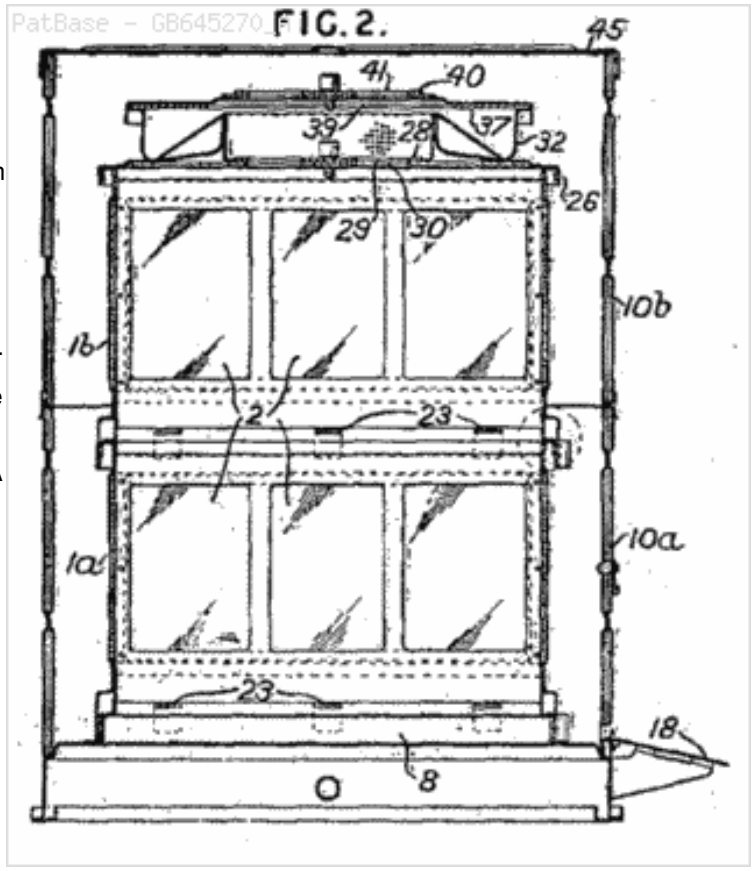
**CPC:** A01K47/00

**European class:** A01K47/00

Classification Explorer

**Forward Citations:** WO8603935,

**Abstract:**
Source: GB645270A 26225. [Class 5(ii)] A bee–hive comprises a number of superimposed chambers 1a, 1b having windows 2 and mounted on a stand 8 wherein each chamber has a slot (not shown) for the insertion of a manipulating plate which rests on supports 23. The top chamber is fitted with a lid 26 provided with a rotatable disc 28 which has bee slots 29 cooperating with bee slots 30 on the lid. On top of the lid 26 is an annular trough–like feeder 32 above which is a cover having windows 37 and bee slots 39 which cooperate with slots 41 on a rotatable plate 40. The hive is enclosed in an opaque sheath having walls of double thickness which may be provided with troughs for storing water. As shown, the sheath comprises two sections 10a, 10b and a transparent or opaque lid 45. A foldable alighting board 18 is provided and the hive may be electrically heated. The hive is made of sheet metal and the windows of a glassclear synthetic resin.



0) AU2015101097A – BEEHIVE ENCLOSURE

**11) Family number: 60402586** (AU2015101097A)

© PatBase

| | |
|---|---|
| **Title:** | Beehive enclosure |
| **Priority:** | AU20150101097 20150813 |

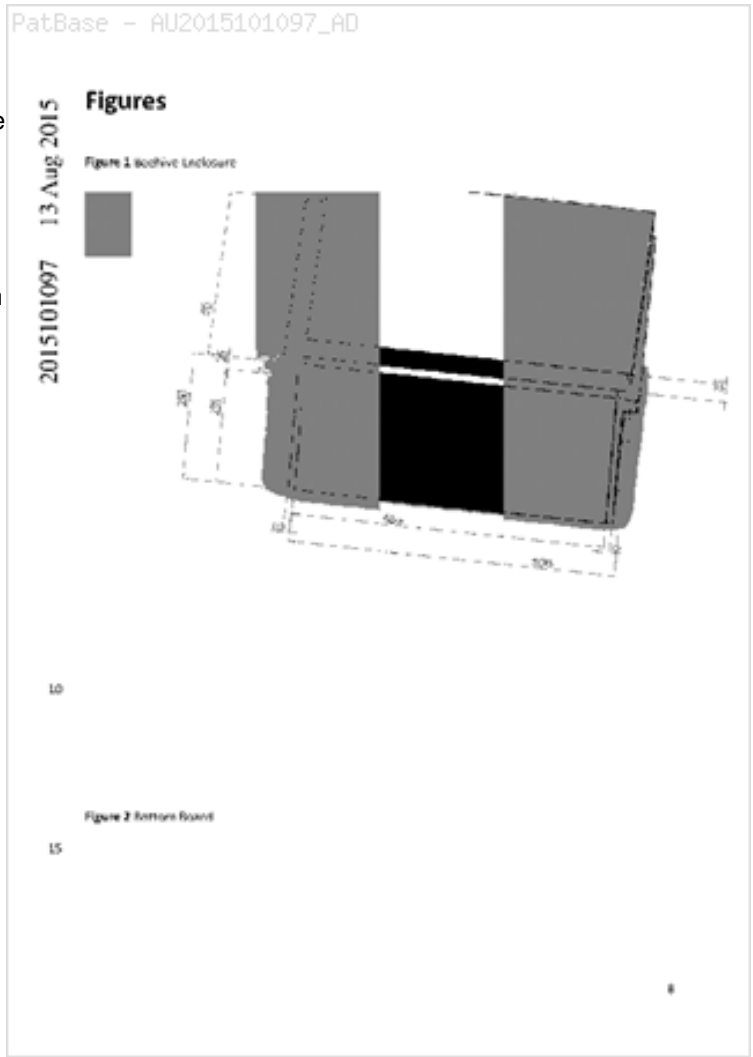
**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| AU2015101097 AD | 20150924 | AU20150101097 | 20150813 |

| | |
|---|---|
| **Probable Assignee:** | HIVE HAVEN PTY LTD |
| **Assignee(s):**(std)**:** | HIVE HAVEN PTY LTD |
| **Inventor(s):**(std)**:** | ROSS ANN ; ROSS JEFFREY |
| **Agent(s):** | HIVE HAVEN PTY LTD |
| **International class (IPC 8–9):** | A01K47/06 (Advanced/Invention) |

Classification Explorer

**Abstract:**
Source: AU2015101097A The bee hive has retained the Langstroth Hive enclosure size and design and has incorporated a small hive beetle trap and a Varroa mite deterrent into the design. The innovative material and design provides improved heating and cooling properties. The device enables the extraction of honey, propolis, cereum, wax and pollen to be removed from the bee enclosure. The material used is sourced from recycled and new plastic for example, but not limited to High Density Polyethylene (HDPE) which embodies the sustainability philosophy of recycling, HOPE is a valuable material that can be recycled to deliver a durable product requiring little or no maintenance and providing the beekeeper with a higher return on their time and investment. By adopting the Langstroth Hive dimensions, the bee enclosure is easily mixed and matched with wooden hives currently in use. A feature of the invention is a locking device which secures the beehive container and including the removable lid and the bottom board. A further feature of the invention is software to support and monitor the inventive beehive described above and bees to provide an integrated system which will enable the bee keeper to record the age, condition, rotation and efficiency of their hive enclosures and bees. Figure 3 Bee Hive enclosure with circular opening to allow bees to enter and leave the enclosure.



0) DE2040242A1 – SQUARE BEEHIVE FRAME – OF CLOSED CELL IMPACT–RE...

**12) Family number: 511501** (DE2040242A1) © PatBase

**Title:** SQUARE BEEHIVE FRAME – OF CLOSED CELL IMPACT–RESISTANT PLASTICS

**Priority:** DE19702040242 19700813

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| DE2040242 A1 | 19720217 | DE19702040242 | 19700813 |
| DE2040242 B2 | 19750410 | DE19702040242 | 19700813 |
| DE2040242 C3 | 19751127 | DE19702040242 | 19700813 |

**Probable Assignee:** HORN DIETER DIPL KFM

**Assignee(s):(std):** HORN DIETER DIPL KFM

**Assignee(s):** HORN DIETER DIPL KFM 7062 RUDERSBERG

**Inventor(s):(std):** HORN DIETER DIPL KFM

**Inventor(s):** HORN DIETER DIPL KFM 7062 RUDERSBERG

**International class (IPC 8–9):** A01K47/00 (Advanced/Invention); A01K47/00 (Core/Invention)

**International class (IPC 1–7):** A01K47/00

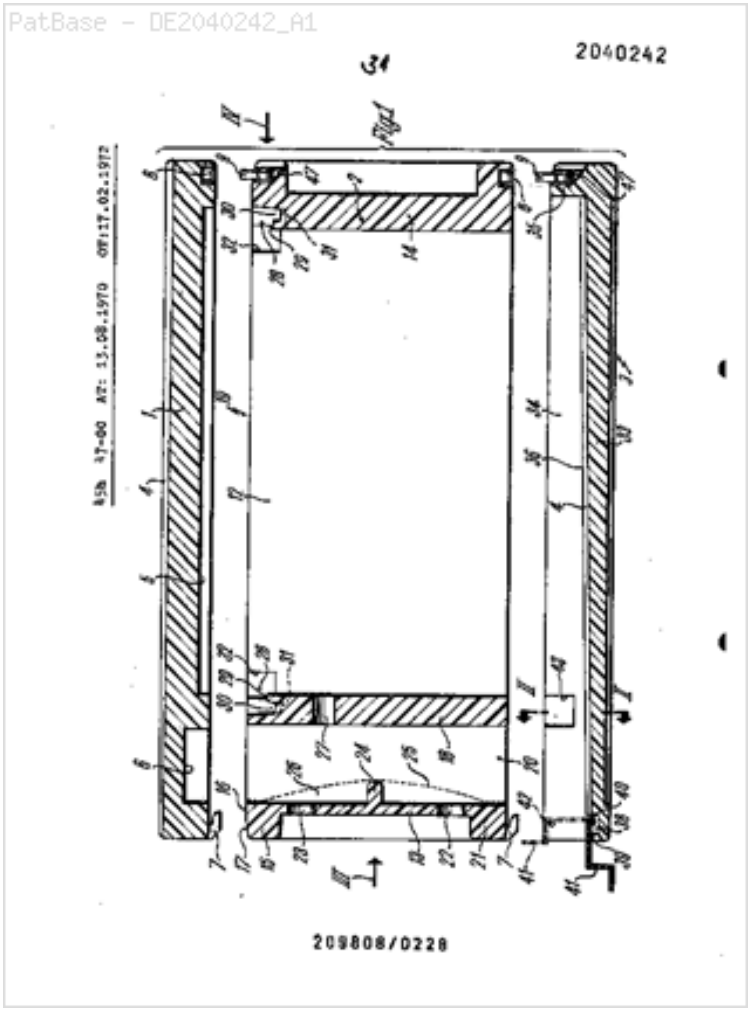
**CPC:** A01K47/00

**European class:** A01K47/00

Classification Explorer

**Forward Citations:** US3968531, FR2682260,

**Abstract:**
Magazine, floor and cover are of the hard resin, which has a smooth outer surface. Individual inner surfaces are roughened so that the bees' feet can grip sufficiently when they are perpendicular or upside down. Pref. the outer surfaces have a foamed–on hard polyurethane foam, of limited elasticity.



0) ES2261023A – PROCEDIMIENTO PARA LA CONSTRUCCION DE COLMENAS ...

**13) Family number: 33811315** (ES2261023A) © PatBase

**Title:** PROCEDIMIENTO PARA LA CONSTRUCCION DE COLMENAS POR INYECCION O PROYECCION DE ESPUMA DE POLIURETANO Process for the construction of hives per injection or POLYURETHANE FOAM PROJECTION (Machine translation)

**Priority:** ES20040001859 20040727

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| ES2261023 AA | 20061101 | ES20040001859 | 20040727 |
| ES2261023 BA | 20071216 | ES20040001859 | 20040727 |

**Probable Assignee:** PELAEZ MONTILLA JOSE ANTONIO

**Assignee(s):**(std)**:** PELAEZ MONTILLA JOSE ANTONIO

**Inventor(s):**(std)**:** PELAEZ MONTILLA JOSE ANTONIO

**International class** (IPC 8–9)**:** A01K47/00 (Advanced/Invention)

**CPC:** A01K47/00

**European class:** A01K47/00

Classification Explorer

**Cited documents:** ES314070, ES2178191, ES203649, ES1058049 U,

**Abstract:**
Source: ES2261023A Procedimiento para la construccion de colmenas por inyeccion o proyeccion de espuma de poliuretano. Consistente en construir moldes de madera o de metal que configuran la base, las paredes exteriores, las paredes interiores y la tapa de la colmena, constando cada molde de dos piezas. Una vez colocados los moldes se coloca encima de la caja resultante una tapa de inyeccion provista de dos orificios de inyeccion del poliuretano, rellenandose el espacio que queda entre las distintas piezas que configuran los moldes mediante bombas hidraulicas. Una vez retirados los moldes queda una colmena de una sola pieza totalmente de poliuretano. A la caja se le ensambla la tapa, tambien de polietileno, se le unen las asas y se le practican orificios de ventilacion.

**Machine translation:** Procedure for construction of hives per injection or projection of polyurethane foam. Build molds consisting of wood or metal forming the foundation, external walls, interior walls and lid of the hive, each consisting of two mold parts. Once the molds are positioned on top of the box placed resultant injection lid having two injection holes polyurethane, filling the space between the various parts that make up the molds by hydraulic pumps. After removing the molds is a beehive in one piece entirely of polyurethane. The box lid is assembled, also polyethylene, is joined by the handles and is practiced vents.

0) DE102012019651A1 – BIENENWOHNUNG

**14) Family number: 53506669** (DE102012019651A1) © PatBase

**Title:** BIENENWOHNUNG

**Priority:** CH20110001669 20111012

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| CH705617 A2 | 20130415 | CH20110001669 | 20111012 |
| DE102012019651 A1 | 20130418 | DE201210019651 | 20121008 |

**Probable Assignee:** UEBERSAX ROLAND

**Assignee(s):**(std)**:** UEBERSAX ROLAND

**Assignee(s):** ROLAND UEBERSAX ; UEBERSAX

**Inventor(s):**(std)**:** UEBERSAX ROLAND

**Inventor(s):** ROLAND UEBERSAX

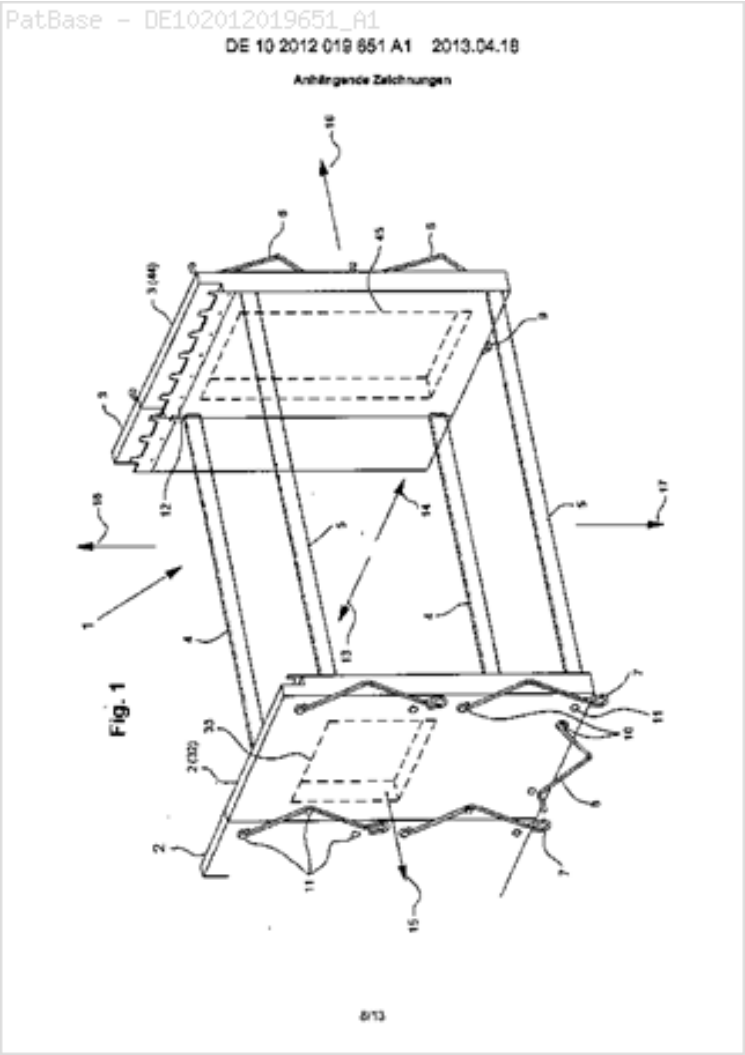
**International class** (IPC 8–9)**:** A01K47/00 (Advanced/Invention); A01K49/00 (Advanced/Non–invention)

**CPC:** A01K47/00

Classification Explorer

**Forward Citations:** AT14812,

**Abstract:**
Source: DE102012019651A1 Eine Bienenwohnung (1), deren Waende–Stirn– (2, 32), Rueck– (3, 44) und Seitenwaende (23, 24) bewegliche Module sind, so werden diese nach Bedarf zu– und abgebaut was in allen sechs Erweiterungsrichtungen (13, 14, 15, 16, 17 und 18) erfolgen kann, wobei fuer die Erweiterungsrichtungen 15 und 16 die Stirn– (2) und Rueckwand (3) durch eine modifizierte Stirn– (32) und Rueckwand (44) mit Durchbruechen (33, 45) ausgetauscht werden und diese wie alle diese Waende mit einer Schnellfixation durch ein sich verspannen durch die Federbuegel (6, 7) mit den Schrauben (10, 11), die in den Waenden verankert sind, und so auch die Waende gegeneinander verspannt und fixiert, ausgefuehrt ist, wobei alle Waende als Einzelmodule losgeloest raumsparend gestapelt werden koennen und in gleicher Weise die Flugloecher mit ihren Bodenbrettern modular sind und somit wahlweise an die Stirn– oder Seitenwaende gebaut werden koennen.



0) AU2007200234A – IMPROVEMENT IN PRODUCTION OF HONEY COMB

**15) Family number: 36021546** (AU2007200234A) © PatBase

**Title:** Improvement in production of honey comb

**Priority:** AU20060900409 20060127 AU20070200234 20070119

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| AU2007200234 AA | 20070816 | AU20070200234 | 20070119 |

**Probable Assignee:** HONEY SHACK PTY LTD

**Assignee(s):**(std)**:** HONEY SHACK PTY LTD

**Assignee(s):** THE HONEY SHACK PTY LTD

**Inventor(s):**(std)**:** SMITH ERIC WILLIAM

**Inventor(s):** ERIC WILLIAM SMITH

**Agent(s):** CALLINANS; FISHER ADAMS KELLY CALLINANS

**International class (IPC 8–9):** A01K47/00 A01K47/02 A01K47/06 (Advanced/Invention); A01K47/00 (Core/Invention)

Classification Explorer

**Abstract:**
Source: AU2007200234A –13– ABSTRACT
An apparatus for facilitating the growing and production of comb honey including a frame to receive and releasably hold side–by–side in planar arrays a first plurality of cassette bases adapted to promote the production of comb honey by bees, said frame being suspended in a bee hive box in place of a conventional frame and including a web having two opposed planar surfaces, at least one of said planar surfaces being provided with means to releasably retain said cassette bases, each of said cassette bases comprising a box–like container with a bottom wall and opposed pairs of side walls defining a cavity within which comb honey can be deposited, said cassette bases being transparent and the inner side of the bottom wall of each cassette base being embossed with hexagonal patterning sized to promote the production of comb and comb honey and each of said cassette bases being adapted to be individually covered with a cassette lid and to be removed from said frame with comb honey formed within being retained intact.
19/01/07jb15482 cap, 13 2/7 26

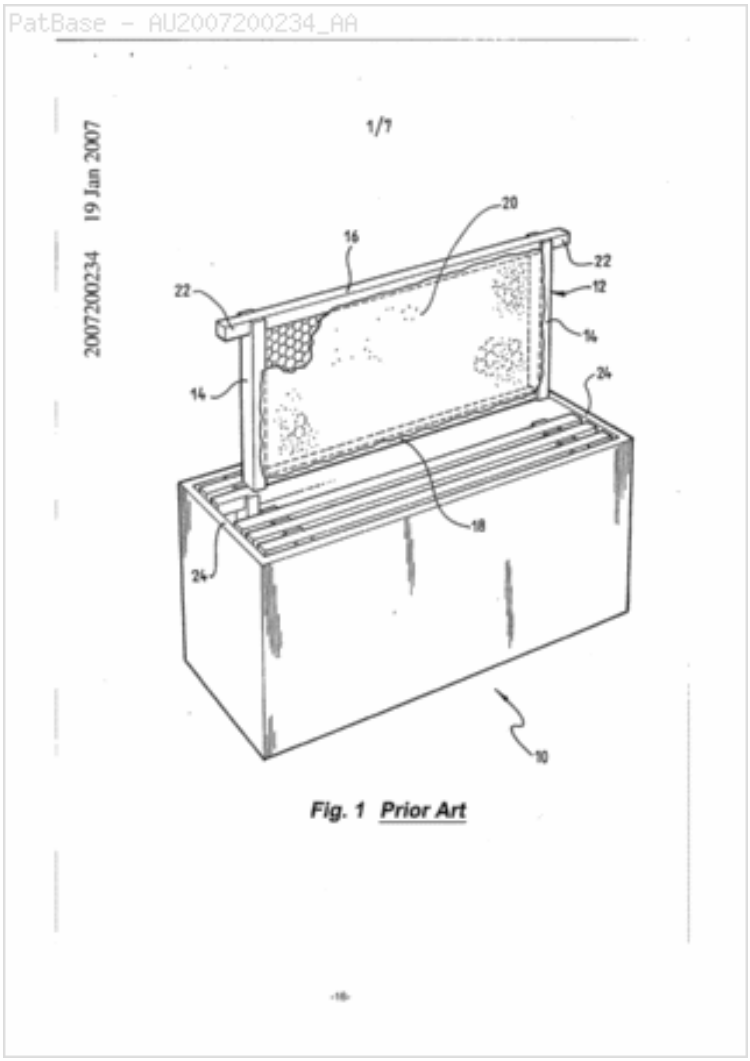



*Fig. 1 Prior Art*

0) GB586654A – AN IMPROVED BEEHIVE

**16) Family number: 19896917** (GB586654A)

© PatBase

**Title:** An improved beehive

**Priority:** GB19440019839 19441013

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| GB586654 A | 19470326 | GB19440019839 | 19441013 |

**Probable Assignee:** DENISE KATE WREN

**Assignee(s):**(std)**:** DENISE KATE WREN

**International class (IPC 8–9):** A01K47/00 (Advanced/Invention); A01K47/00 (Core/Invention)

**International class (IPC 1–7):** A01K47/00

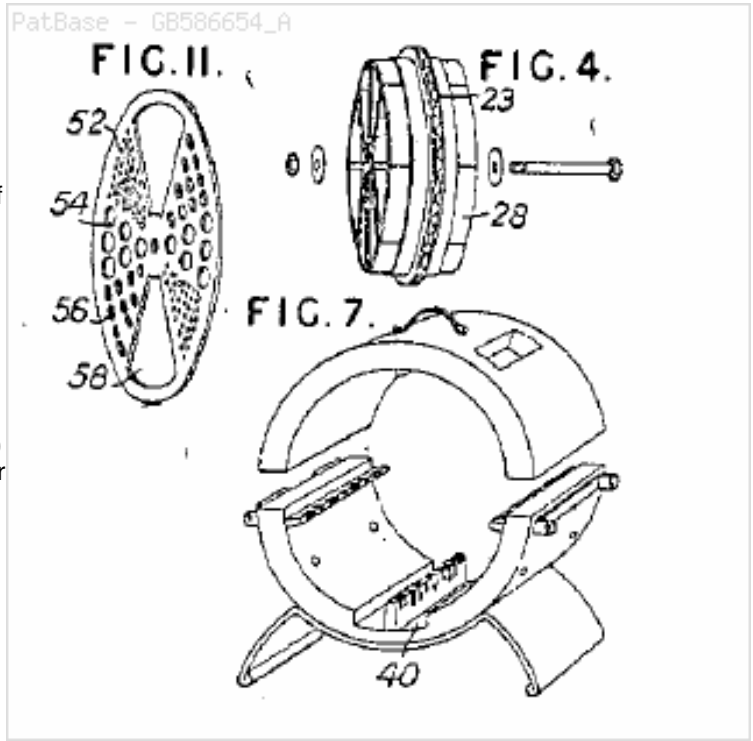
**CPC:** A01K47/00

**European class:** A01K47/00

Classification Explorer

**Forward Citations:** WO8603935, WO15164319, WO14161946, WO03007704, WO0072668, FR2598282, EP1414292, DE102013005587,

**Abstract:**
Source: GB586654A 19839. [Class 5 (ii)] A beehive comprises one or more chambers placed end to end, each symmetrical and reversible about a central plane, an apertured screen being placed at each end of each chamber. Frames consist of flanged rings with a wax foundation 23 clamped between them. If a synthetic resin is used the rings and foundation may be formed as an integer. Sector–shaped section boxes 28 may be fitted within each flange, each box being formed from a strip of thin wood or synthetic material. An axial nut and bolt with washers may hold the assembly together. Such frames are mounted within chambers, Fig. 7, the upper half of which is removable from or hinged to the lower half. Recessed. longitudinal racks 40 are mounted in the base and sides of the lower part of the chamber. A resilient strip 45 in the upper part prevents movement. To each end of the chamber is fixed a plate having two sectorshaped openings, and pivoted on each end–plate is a disc, Fig. 11, having sector–shaped openings 58 and apertures 52, 54, 56 of differing size. Several chambers arranged in series to form a hive are closed at each end by plates containing only flight and ventilation holes. The chambers may be of rectangular section, and instead of rotary end plates, interchangeable plates may be provided.



0) RU2038771C – ISOLATION CHAMBER FOR INTRODUCTION OF QUEEN BEE...

**17) Family number: 10481579** (RU2038771C) © PatBase

**Title:** ISOLATION CHAMBER FOR INTRODUCTION OF QUEEN BEES

**Priority:** RU19920001546 19921019

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| RU2038771 C1 | 19950709 | RU19920001546 | 19921019 |
| RU92001546 A | 19970310 | RU19920001546 | 19921019 |

**Probable Assignee:** GOSTINICHNO ARENDATORSKIJ KOOP

**Assignee(s):**(std)**:** GOSTINICHNO ARENDATORSKIJ KOOP

**Assignee(s):** GOSTINICHNO ARENDATORSKIJ KOOPERATIV KROV

**Inventor(s):**(std)**:** EMANDYKOV ALEKSANDR M ; SARATOV VLADIMIR A

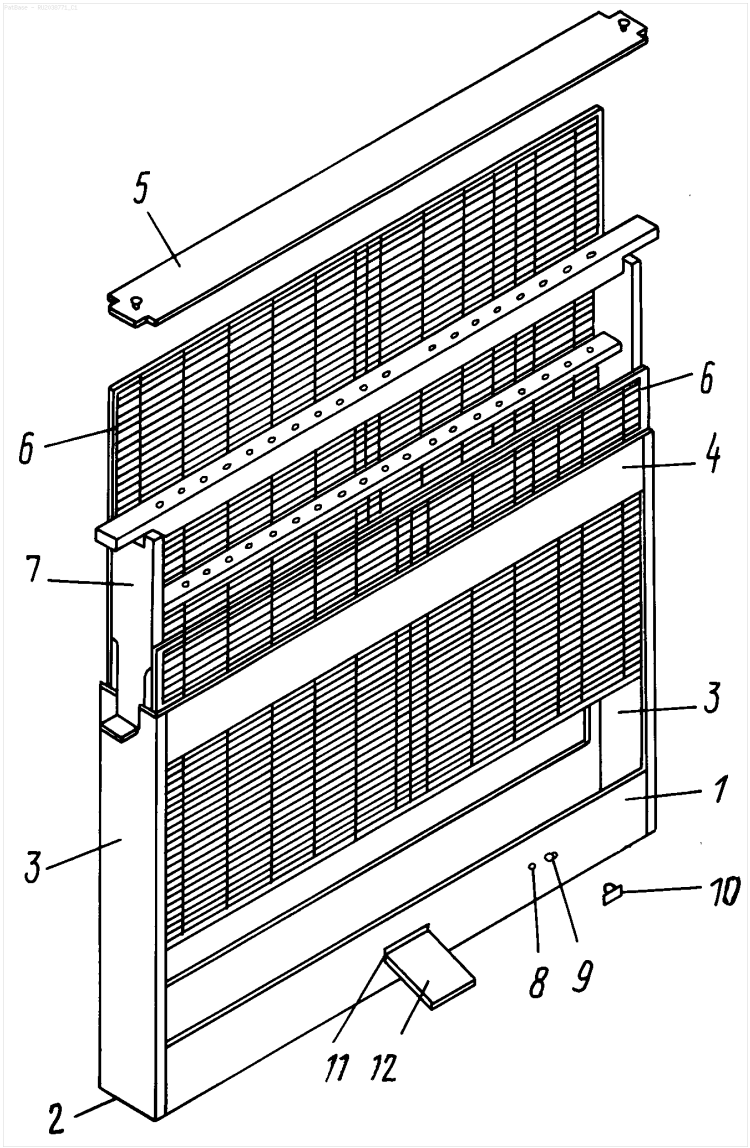
**International class** (IPC 8–9)**:** A01K49/00 (Advanced/Invention); A01K49/00 (Core/Invention)

**International class** (IPC 1–7)**:** A01K49/00

Classification Explorer

**Abstract:**
Source: RU2038771C

FIELD: apiculture. SUBSTANCE: isolation chamber has a bottom base in the form of U–shaped box connected to which are U–shaped end walls interconnected in the upper part by parallel plates. One of the box side walls has a hole of 2.8 3.0 mm dia for connecting a cage with queen bee and a hole of 8 15 mm dia for introducing the queen bee, closed with a plug. Said holes are spaced at 11 25 mm from each other. One of the side walls of the box is provided with an entrance slot with an opening 7 9 mm high and 50 70 mm long fitted with a replaceable entrance platform and a cover while the end part of the box has an entrance slot 10 30 mm long. The side walls of the isolation chamber have the form of replaceable plates with holes. The relation of the total area $S_2$ of holes to the area $S_1$ of the side walls is 0,05 ? $[(S_2 - S_1)/S_2]$? 1. EFFECT: improved design. 1 dwg



0) CN202697471U – COMB HONEY BOX

**18) Family number: 52920630** (CN202697471U) © PatBase

**Title:** COMB HONEY BOX

**Priority:** CN201220443698U 20120903

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| CN202697471 U | 20130130 | CN201220443698U | 20120903 |

**Probable Assignee:** QIU RUMIN

**Assignee(s):**(std)**:** QIU RUMIN

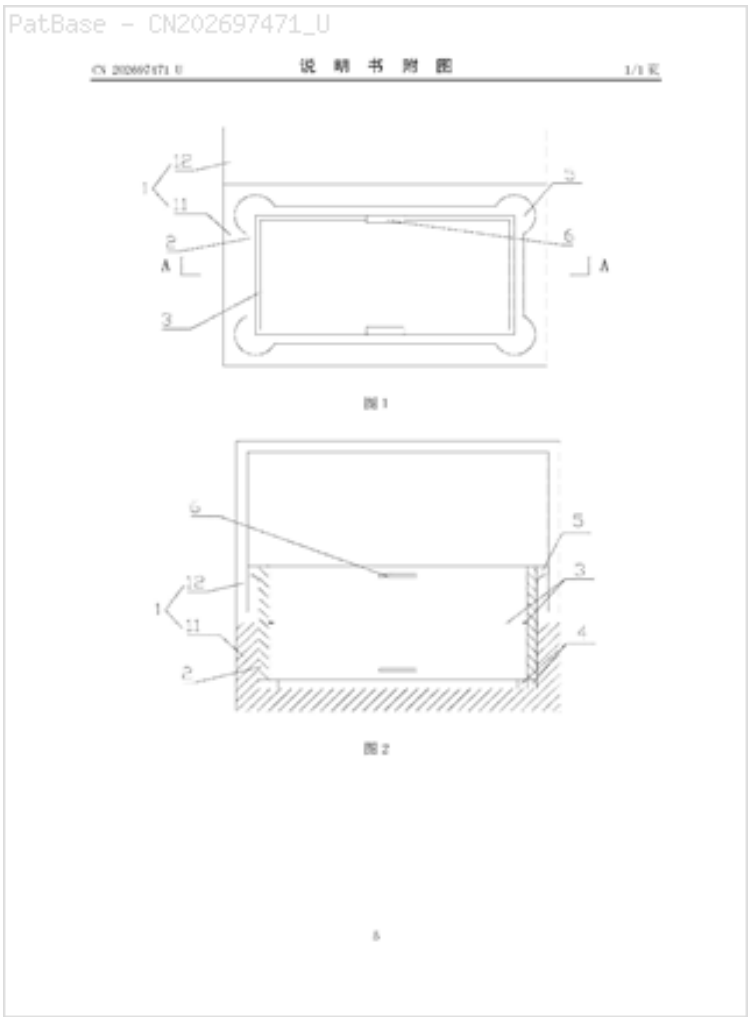
**Inventor(s):**(std)**:** QIU RUMIN

**International class** (IPC 8–9)**:** A01K47/04 (Advanced/Invention)

Classification Explorer

**Forward Citations:** CN104904622, CN104904622, CN102860268,

**Abstract:**
Source: CN202697471U (11), the inner wall of the utility model discloses a nest of honey box, including the lid from the box body (12) constituting the sleeve (1) and place it in the honeycomb pack frame (2), the honeycomb frame along the circumferential direction is provided to facilitate the rolling beeswax nest foundation of the flange (3), the lower end surface of the honeycomb frame with a downwardly projecting support feet (4) on the outer edge of the end face of the honeycomb frame with a level projecting support base (5), the support base and the corresponding support leg, with the upper and lower sides of the stopper ribs (6), the limit distribution of ridges on the convex side of the inner wall of the honeycomb frame. The utility model is a nest of honey hive box does not produce waste products utilization is high; no cut honeycomb outer packaging does not need cleaning, low labor intensity; from two directions at the same hive nest box, high production efficiency.



**19) Family number: 57563450** (WO14161058A1) © PatBase

**Title:** STRUCTURAL ARRANGEMENT IN CONSTANT EVAPORATIVE AIR–CONDITIONER

**Priority:** BR20132008109U 20130404

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| BR202013008109 U2 | 20141007 | BR20132008109U | 20130404 |
| PE19132015 Z | 20160114 | PE20150002086U | 20140404 |
| WO14161058 A1 | 20141009 | WO2014BR00114 | 20140404 |

**Probable Assignee:** REICHERT JOAO ANTONIO

**Assignee(s):**(std)**:** JOAO ANTONIO REICHERT ; REICHERT JO O ANTONIO ; REICHERT JOAO ANTONIO

**Inventor(s):**(std)**:** REICHERT JO O ANTONIO ; REICHERT JOAO ANTONIO

**Inventor(s):** JOAO ANTONIO REICHERT

**Agent(s):** CAMPOS STOCK LUIZ FERNANDO

**Designated states:** AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

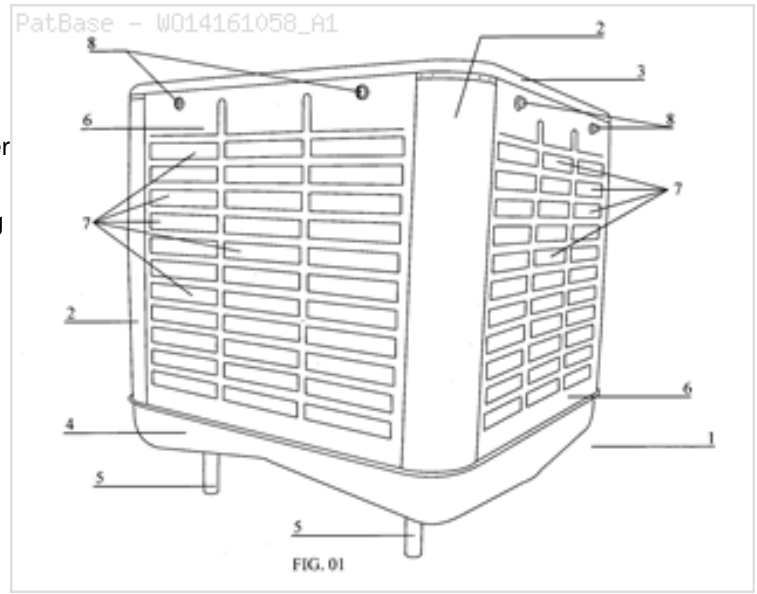
**International class (IPC 8–9):** F24F6/00 F24F6/02 F24F6/06 F24F7/06 F28D5/00 (Advanced/Invention)

**CPC:** F28D5/00 F24F5/0035 F24F2011/0006 F28B1/06

Classification Explorer

**Cited documents:** WO10062003 A1, US5606868 A, US4951480 A, US4672820 A, US4615182 A, US2013186611 AA, BRMU9001461 U2,

**Abstract:**
A structural arrangement in a constant evaporative air–conditioner, as described in the description and depicted in the attached drawings, is characterised by a new structural arrangement for an evaporative air–conditioner with a constant air flow, this device being designed to allow greater thermal adaptation of industrial or domestic environments, cooling or heating the same with low energy consumption and noise level. The structure of the equipment was improved in comparison with the previous utility models from the same applicant, in order to make the equipment easier to manufacture and to improve its operation and performance.



0) DE558403A – BIENENSTOCK BEEHIVE (MACHINE TRANSLATION)

**20) Family number: 20280210** (DE558403A)

© PatBase

**Title:** BIENENSTOCK BEEHIVE (Machine translation)

**Priority:** DE1931S098257 19310426

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| DE558403 A | 19320906 | DE1931S098257D | 19310426 |

**Probable Assignee:** OLIVER SMITH

**Assignee(s):**(std)**:** OLIVER SMITH

**International class (IPC 8–9):** A01K47/00 (Advanced/Invention); A01K47/00 (Core/Invention)

**International class (IPC 1–7):** A01K47/00 A01K47/06

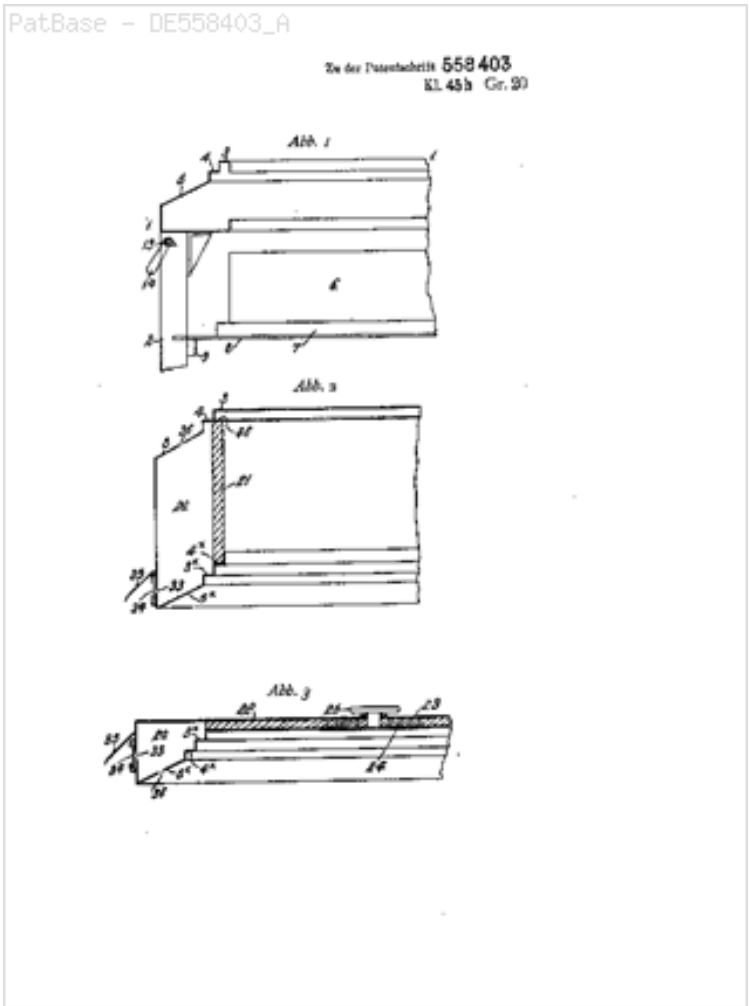
**CPC:** A01K47/00

**European class:** A01K47/00

Classification Explorer

**Abstract:**
Source: DE558403A (Claim 1) 1. PATENTANSPRUECHE: z. Bienenstock, bestehend aus doppel wandigen, mit Ansatzflaechen aufeinander setzbaren Einzelteilen, dadurch gekenn– zeichnet, dass die Hohlraeume der Einzel teile, naemlich des Bodenteiles, der rahmen foermigen Isastenteile und des Deckelteiles, durch Luftkanaele miteinander verbunden sind, waehrend in den Aussenwaenden der Einzelteile regelbare Lueftungsoffnungen sich befinden.

**Machine translation:** (claim 1) 1 Claims: for beehive, consisting of double–walled, with Ansatzflaechen successive settable items, thereby marked, that the cavities of the individual parts, namely the base part, the frame–shaped Isastenteile and the lid part, by Luftkanaele are connected together, while in the external walls of the items are controlled Lueftungsoffnungen.



0) DE9202698U1 –

**21) Family number: 17694488** (DE9202698U1) © PatBase

**Priority:** DE19910004903U 19910422 DE19920002698U 19920229

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| DE9202698 U1 | 19920617 | DE19920002698U | 19920229 |

**Probable Assignee:** NOCK FRANZ 7740 TRIBERG DE

**Assignee(s):** NOCK FRANZ 7740 TRIBERG DE

**International class (IPC 8–9):** A01K47/00 A01K47/02 (Advanced/Invention); A01K47/00 (Core/Invention)

**International class (IPC 1–7):** A01K47/02 A01K47/06

**CPC:** A01K47/00 A01K47/02

**European class:** A01K47/00 A01K47/02

Classification Explorer

**Abstract:**
Source: DE9202698U1 (Claim 1)
Gebrauchsmuster–Anmeldung
Bienenwohnungsbau
Verbundmagazin/Gebirgsmagazin
Schutzansprueche 1. Beim
Bienenwohnungsbau handelt es sich um
Magazine, wie sie in den letzten 25 Jahren
Eingang in der deutschen Bienenhaltung
gefunden haben.

**Machine translation:** (Claim 1) Utility Model
Application bees housing association
magazine / rock magazine Schutzansprueche
first When bees are housing magazines, as
they have found in the last 25 years in receipt
of the German beekeeping.

0) GB2442192A – HOLDER FOR MUG ON CHAIR ARM

**22) Family number: 33984283** (GB2442192A) © PatBase

**Title:** HOLDER FOR MUG ON CHAIR ARM

**Priority:** GB20060019137 20060928

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| GB200619137 A0 | 20061108 | GB20060019137 | 20060928 |
| GB2442192 A1 | 20080402 | GB20060019137 | 20060928 |
| GB2442192 B2 | 20080827 | GB20060019137 | 20060928 |

**Probable Assignee:** GILBERT DOREEN

**Assignee(s):**(std)**:** GILBERT DOREEN

**Assignee(s):** DOREEN GILBERT

**Inventor(s):**(std)**:** GILBERT DOREEN

**Inventor(s):** DOREEN GILBERT

**International class** (IPC 8–9)**:** A47C7/70 A47G23/03 (Advanced/Invention); A47C7/62 A47G23/00 (Core/Invention)

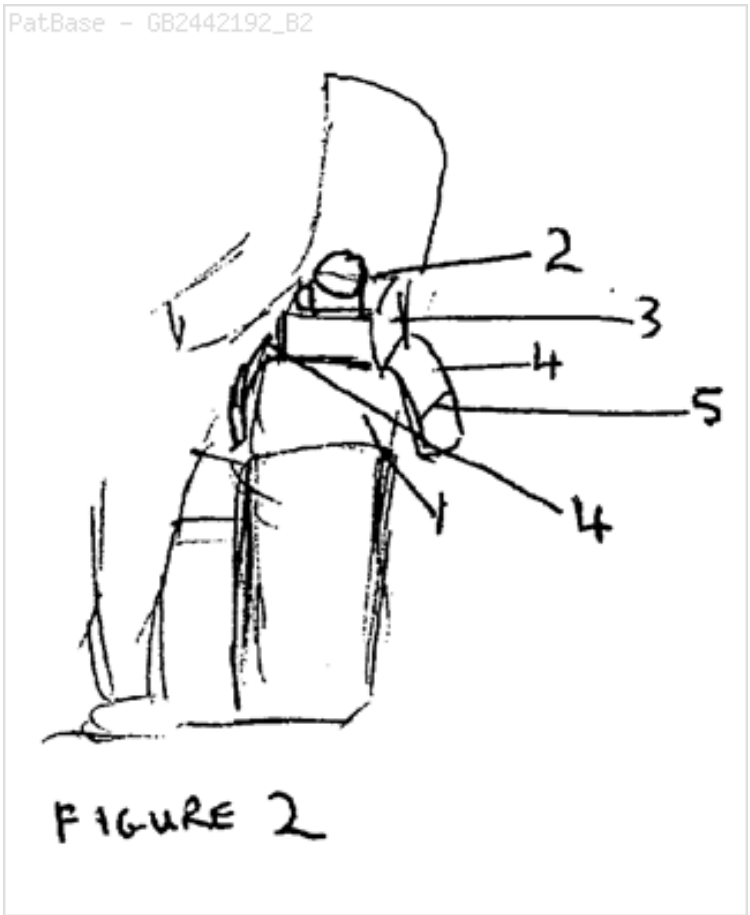
**CPC:** A47G23/0225 A47C7/70 A47G23/03

**European class:** A47C7/70 A47G23/02A2B A47G23/03

Classification Explorer

**Cited documents:** GB342504 A, GB262210 A, GB220890 A,

**Abstract:**
Source: GB2442192A A multi–purpose mug holder includes a coaster tray 3 with a raised outer wall to hold a drinks vessel 2. The tray 3 fits centrally on a weighted band 4 which hangs over each side of the arm 1 of a sofa or chair leaving the mug holder 3 sitting on top of the arm 1 in a stable and convenient position. Pockets 5 on each end of the band 4 can hold various personal items such as spectacles, lipsticks, pens, notepads, tablets, sweets and tissues as required. The inside base of coaster tray 3 and the underside of band 4 can be slip resistant to provide more stability. The tray may optionally have a lid (7) and a divider (6).



- **search:** SS3 FT=hive* and bee* and (infestation or parasite) and wall* and mesh (Results 6)
- List: SS3 1–50 (FT=hive* and bee* and (infestation or parasite) and wall* and mesh) (Results 6)

0) WO07102035A2 – BEE HIVE FOR CONTROLLING SMALL HIVE BEETLE INFE...

**1) Family number: 36069280** (WO07102035A2) © PatBase

**Title:** BEE HIVE FOR CONTROLLING SMALL HIVE BEETLE INFESTATION AND METHOD FOR PREVENTING SWARMING

**Priority:** HU20060000190 20060308

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| HU0600190 A0 | 20060428 | HU20060000190 | 20060308 |
| HU0600190 AB | 20071128 | HU20060000190 | 20060308 |
| WO07102035 A2 | 20070913 | WO2007HU00019 | 20070306 |
| WO07102035 A3 | 20081113 | WO2007HU00019 | 20070306 |

**Probable Assignee:** ANIVET KFT

**Assignee(s):**(std)**:** ANIVET KFT ; KONYA LAJOS

**Inventor(s):**(std)**:** KONYA LAJOS

**Designated states:** AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

**International class (IPC 8–9):** A01K47/00 A01K47/06 A01K49/00 A01K51/00 (Advanced/Invention); A01K47/00 A01K49/00 A01K51/00 (Core/Invention)

**CPC:** A01K47/06 A01K49/00 A01K51/00

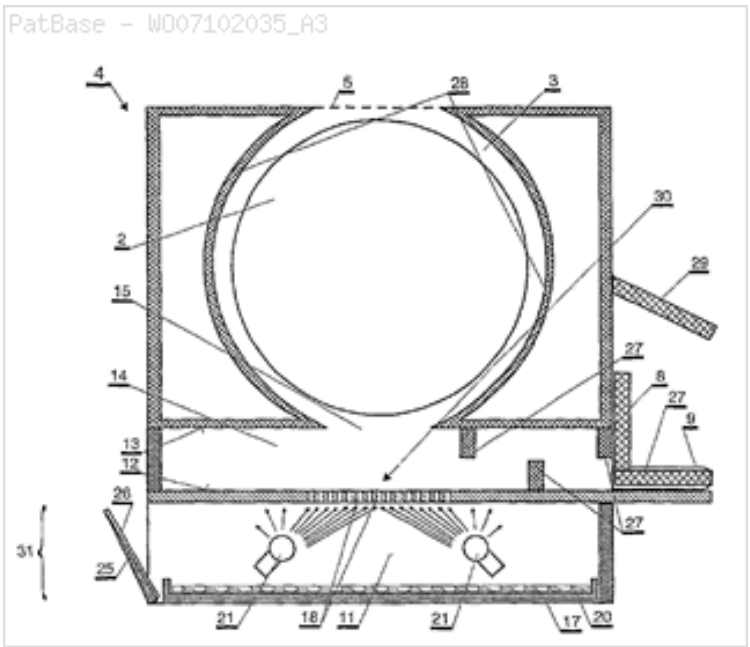
**European class:** A01K47/06 A01K49/00 A01K51/00

Classification Explorer

**Cited documents:** WO03007704 A1,

**Forward Citations:** WO16157232, US2013019518, DE102013005587,

**Abstract:**
Rotating brood–frame bee hive for controlling small hive beetle infestation of the hive. Under the brood chamber (4) a corridor (14) bordered by a lower wall (12) and an upper wall (13) is provided, the upper wall being the lower panel of the brood chamber (4) in which an opening (15) is formed. The lower wall (12) is provided with a gateway (30) for the larvae of the small hive beetle. A collecting tray (17) is arranged at least beneath the gateway (30). The corridor's lower wall (12) provided with the gateway (30) is illuminated from below. During the method the brood frames are rotated by 180 degrees every 24 hours around a shaft which is parallel with the ground so that 45 degrees rotation is effected every 6 hours or 90 degrees rotation is effected every 12 hours, thereby swarming is prevented.



0) US2016212977A – DEVICE FOR DIAGNOSING INFESTATION

**2) Family number: 55625826** (US2016212977A) © PatBase

**Title:** DEVICE FOR DIAGNOSING INFESTATION

**Priority:** DE201320007841U 20130904 WO2014EP68617 20140902

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| AU2014317213 AA | 20150312 | AU20140317213 | 20140902 |
| CA2922880 AA | 20160301 | CA20142922880 | 20140902 |
| CN105491881 A | 20160413 | CN201480048940 | 20140902 |
| CO16055554 A2 | 20160620 | CO20160055554 | 20160303 |
| CR20160109 A | 20160422 | CR20160000109 | 20160304 |
| DE202013007841 U1 | 20140116 | DE201320007841U | 20130904 |
| DOP2016000056 A | 20160315 | DO20160000056 | 20160226 |
| EP3041349 A1 | 20160713 | EP20140780772 | 20140902 |
| IL244266 A0 | 20160421 | IL20140244266 | 20140902 |
| IN201647006876 A | 20160701 | IN201647006876 | 20160229 |
| JP2016536000 T2 | 20161124 | JP20160539505T | 20140902 |
| KR20160050022 A | 20160510 | KR20167004970 | 20140902 |
| MX2016002533 A1 | 20160621 | MX20160002533 | 20140902 |
| PE03682016 A1 | 20160511 | PE20160000336 | 20140902 |
| PH2016500419 A | 20160516 | PH20160500419 | 20160303 |
| US2016212977 AA | 20160728 | US20140916244 | 20140902 |
| WO15032753 A1 | 20150312 | WO2014EP68617 | 20140902 |

**Probable Assignee:** BAYER ANIMAL HEALTH GMBH

**Assignee(s):**(std)**:** BAYER ANIMAL HEALTH GMBH

**Assignee(s):** BUCHLER RALPH ; HABIG JORG ; KRIEGER KLEMENS

**Inventor(s):**(std)**:** BUCHLER RALPH ; BUECHLER RALPH ; HABIG JOERG ; HABIG JORG ; JORG HABIG ; KLEMENS KRIEGER ; KRIEGER KLEMENS ; RALPH BUCHLER

**Inventor(s):** RALPH BUECHLER ; JOERG HABIG

**Agent(s):** GRIFFITH HACK; FETHERSTONHAUGH AND CO; CAROLINA MERCEDES DAZA MONTALVO; BIP PATENTS; SHIGEMORI KAZUKI; TSUBOKURA MICHIAKI; KANAYAMA MASATAKA; ONO MAKOTO

**Designated states:** AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

**International class (IPC 8–9):** A01K A01K47/00 A01K47/06 A01K51/00 A01M1/00 A01M1/14 A01M1/20 (Advanced/Invention); A01K (Subclass/Invention)

**CPC:** A01K47/00 A01K47/06 A01K51/00

**US class:** 449/2

Classification Explorer

**Cited documents:** US6468129 BA, US4867731 A, US2008280528 AA, GB2495284 A1,

DE202011106067 U1

**Forward Citations:** DE202015106406, DE102014110009,

**Abstract:**
Source: US2016212977A The invention relates to a device for examining the infestation of honey bee colonies with Varroa mites. The device contains a container with a bottom, side walls and a cover. Within the container there is a means which causes the Varroa mites to drop off the bees, but does not harm the bees, and a means for fixing the dropped Varroa mites to the bottom of the container. The invention furthermore relates to a method of examining the degree of infestation of honey bee colonies with Varroa mites using the device according to the invention, and to a method for examining the sensitivity of the Varroa mites of a bee colony to various acaricid–containing active compounds using the device according to the invention.

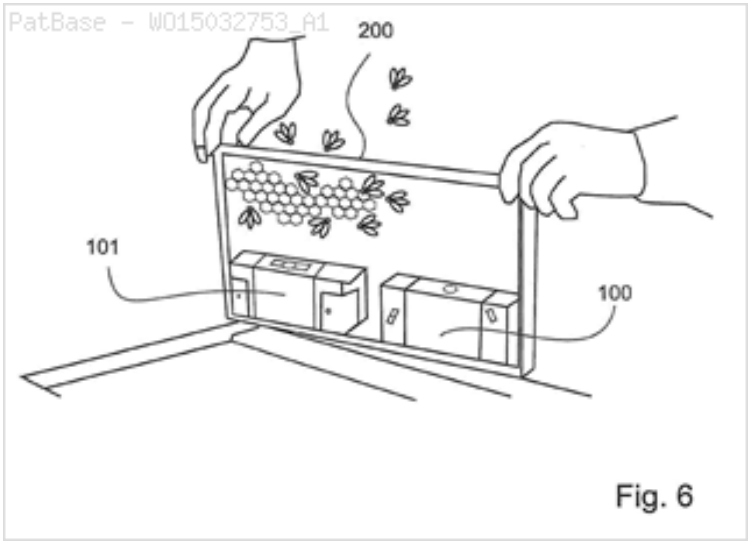


Fig. 6

0) SU929031T – BEEHIVE

**3) Family number: 6517020** (SU929031T)

© PatBase

**Title:** BEEHIVE

**Priority:** SU19792812674 19790717

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| SU929031 A1 | 19820523 | SU19792812674 | 19790717 |
| SU929031 T | 19820523 | SU19792812674 | 19790717 |

**Probable Assignee:** GOLOVIN VALENTIN A

**Assignee(s):**(std)**:** GOLOVIN VALENTIN A

**Assignee(s):** GOLOVIN VALENTIN A SU

**Inventor(s):**(std)**:** GOLOVIN VALENTIN A

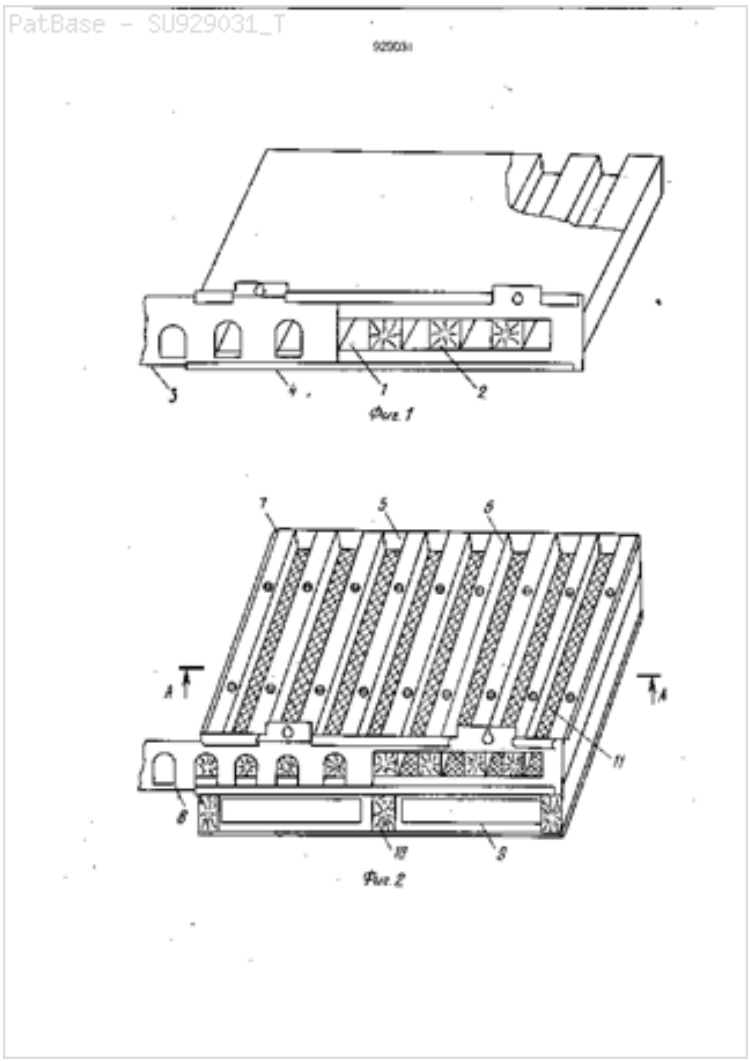
**Inventor(s):** GOLOVIN VALENTIN A SU

**International class (IPC 8–9):** A01K47/00 (Advanced/Invention); A01K47/00 (Core/Invention)

**International class (IPC 1–7):** A01K47/00

Classification Explorer

**Abstract:**
Source: SU929031T Invention relates to beekeeping. known hive comprising a housing notches, migratory board and apparatus for removing ticks with honeybees, and remove ticks ustroystvo.dl designed as a bottom–ul in additional tray which poured bulk drug treatment 1. Yet in a hive with honeybees udalenie.kleschey t vnutriulevym production method in which rolled in drug toxic effects although affects ticks, but at the same time, due to sublimation kantseragenov, detrimental effect on individuals bee colony as flying and non–flying, and food supplies bee colony necessary for its development (honey, pollen, etc.) are subject to contamination and poisoning carcinogens and subsequently adversely affect the development and bodily performance of the bee colony. object of the invention – providing opportunities vneulevoy handling bees. The goal is achieved in that in the hive, comprising a housing, notches, migratory board and apparatus for removing ticks honeybee mites removing device configured as a multi–gate valves provided with inlet and outlet chambers, which are installed on board the flight BPD, said outlet chamber is covered with a two–tiered transparent material passage channels in the upper ruse and screened in the lower grid cassettes ruse. Figure 10. 1 shows the input multi–carrying chamber; Fig. 2 – output multi–channel throughput of the camera; Fig. 3 – section A–A in Fig. 2. input multi–throughput camera size is 100 Bytes 13–15 h 150mm has six passageways section 1 10x 10 mm, which are passed to the SS hive all individuals arriving from outside of the bee colony, and, passageways are two rails, and from the input supplied 20 sliding gate valve 3 mounted on panel 4. sliding valve regulate the passage of drones in the hive. output multi–channel



throughput cell of E 150 B 13–15 h 170 mm has eight passageways 5, section 10x10 mm, separated by strips b, section 8xW mm shielded the entire periphery of cellophane or other transparent material 7. According kdmery output channels are passed all individuals departing from ul bee family, in connection with what for them it is possible to conduct the necessary observations. All the passageway of the chamber from the entrance protected by a sliding gate valve 8, which is similar to the latch is mounted on the inlet chamber. Sliding valve controlled intensity departure bees and drones of ul. In the lower compartment of the outlet chamber placed interchangeable cassette 9, designed to bookmark them in medicinal preparations and akarktsidov. Is blocked by the cassette between the pinion 10 and the upper side of the net 11 is covered with a mesh size of 2,5 x3, 0 mm, which divides the lower compartment from the entire periphery of the upper chamber. Both compartments are secured around the perimeter Schurupov. To provide convalescence bee family, regardless of its degree of Varroa infestation in the hive hive gap inserted first multichannel input bandwidth the camera so that its passageways 1 voschli in vnutrul and rear side panels 4 fits snugly against the wall there–tsevoy ul, closing a gap hives notch. Fastening inlet chamber to the wall is effected by means ul of available slots on the panel 4 and the screws screwed into the wall ul respectively to the slots on the panel 4. output multi–channel throughput camera mounted on the front wall ul adjacent the inlet chamber so that the inlets through channels 5 corresponded to the level of the gap hive the hive, and the panel tightly closed notches, as the camera body itself must lie on migratory ul board, fixed output chamber inlet chamber similar fastening. refill cassettes 9 therapeutic drugs and acaricides is performed after the bees have mastered t unilateral separation movement. proved that the varroa mite females mensche on bees, the higher the degree of infection of the brood. established that the female varroa mite is highly developed respiratory system truboktrahey adapted to an excess of carbon dioxide in the sealed cell and high aeration flying a bee. However, to drive away the female mite Varroa bee with a body separate from the combs, rather smell phenothiazine and other acaricide having a pungent odor, like ticks begin to leave their prey. All these and other biological factors summarized and laid the basis for the invention. Technical and economic advantages of the invention consist in the fact that as a result of its use is achieved all one–way traffic system flight individuals bee family, contributing the implementation of multiple therapeutic and prophylactic treatments each year olds throughout the summer, on the basis of what is achieved by the complete removal of parasitic bees and drones flying x female mite Varroa while eliminating the possibility of repeated and follow them ytsekladok, without causing any harm to the bee colony. Nova processing system vneulevoy flying bees and drones, regardless of their degree of Varroa infestation, expands the range of medicinal

substances, preparations and acaricides for diagnosis, prevention and treatment of varroatosis. claims Hive comprising a housing notches, migratory board and apparatus for removing ticks pche.t honey, characterized in that, in order to allow processing vneulevoy bee mites removing device configured as valves equipped with multichannel inlet and outlet chambers which are installed on migratory board, and the output of the two–tiered Ka.viepa made from transparent material covered in the upper bushing kanala.mi ruse and screened in the lower grid cassettes ruse. 5 Sources infor.matsii, received into account in the examination 1. USSR Author's Certificate number 665868, cl. A 01 K 47/00, 1977. about Figure 2. Fig.

0) US2007224913A – BEEHIVE COMBINATION BOTTOM BOARD FOR DETECTION,...

**4) Family number: 37226988** (US2007224913A)

© PatBase

| | |
|---|---|
| **Title:** | BEEHIVE COMBINATION BOTTOM BOARD FOR DETECTION, MONITORING AND/OR REDUCTION OF PARASITE INFESTATIONS |
| **Priority:** | US20060390690 20060325 |

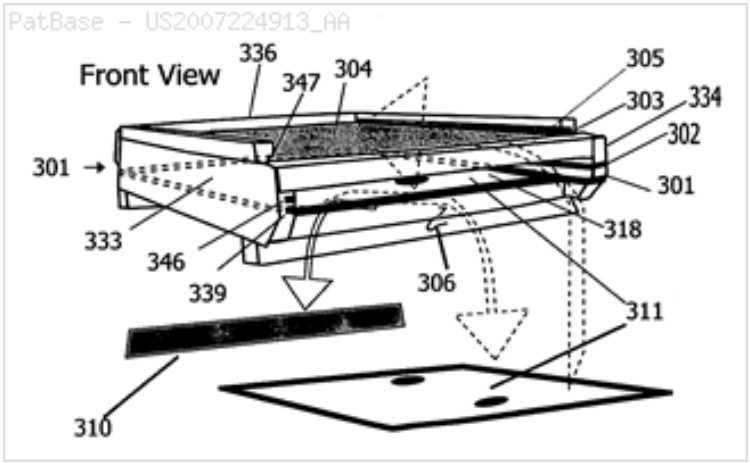
**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| US2007224913 AA | 20070927 | US20060390690 | 20060325 |

| | |
|---|---|
| **Probable Assignee:** | BRISSON JANET E |
| **Assignee(s):**(std): | BRISSON JANET E ; BRISSON MICHAEL A |
| **Inventor(s):**(std): | BRISSON JANET E ; BRISSON MICHAEL A |
| **Inventor(s):** | BRISSON MICHAEL ; BRISSON JANET |
| **Agent(s):** | JANET E BRISSON |
| **International class (IPC 8–9):** | A01K47/00 (Advanced/Invention); A01K47/00 (Core/Invention) |
| **CPC:** | A01K51/00 |
| **European class:** | A01K51/00 |
| **US class:** | 449/3 |
| Classification Explorer | |
| **Cited documents:** | US6468129 BA, US4867731 A, US4291424 A, |
| **Forward Citations:** | USD659293, US9526233, US9357752, US9232774, US2016227745, US2015123801, US2014273733, US2014199914, US2013316614, US2012077412, US2011306272, RU2483532, KR101203167, EP2880974, |

**Abstract:**

Source: US2007224913A An apparatus and method for observing, trapping, reducing and controlling mites which infect and kill honey bees in a beehive. A screen, preferably permanently installed in the bottom board, separates mites from the bees, and sub–board below the screen traps the mites to prevent re–infestation or allows detection and observation. Large air space between the sub–board and screen and the use of a sticky substance on the sub–board prevent bees from climbing up into the beehive and prevent re–attachment and facilitates monitoring and the use of inert powder such as powder sugar. The sub–board is accessible from the rear of the beehive so that the entry and exit of the bees into and out of the beehive are not disturbed and also from the front when rear access is not available allowing this board to have a double use.



0) DE3308017C1 – METHOD AND APPARATUS FOR CONTROLLING MITE INFES...

**5) Family number: 3348469** (DE3308017C1)

© PatBase

**Title:** Method and apparatus for controlling mite infestation of bee colonies

**Priority:** DE19833308017 19830307

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| DE3308017 C1 | 19840329 | DE19833308017 | 19830307 |

**Probable Assignee:** FISCHER RICHARD

**Assignee(s):**(std)**:** FISCHER RICHARD

**Assignee(s):** FISCHER RICHARD 6148 HEPPENHEIM DE

**Inventor(s):**(std)**:** FISCHER RICHARD

**Inventor(s):** FISCHER RICHARD 6148 HEPPENHEIM DE

**International class (IPC 8–9):** A01K51/00 (Advanced/Invention); A01K51/00 (Core/Invention)

**International class (IPC 1–7):** A01K51/00

**CPC:** A01K51/00

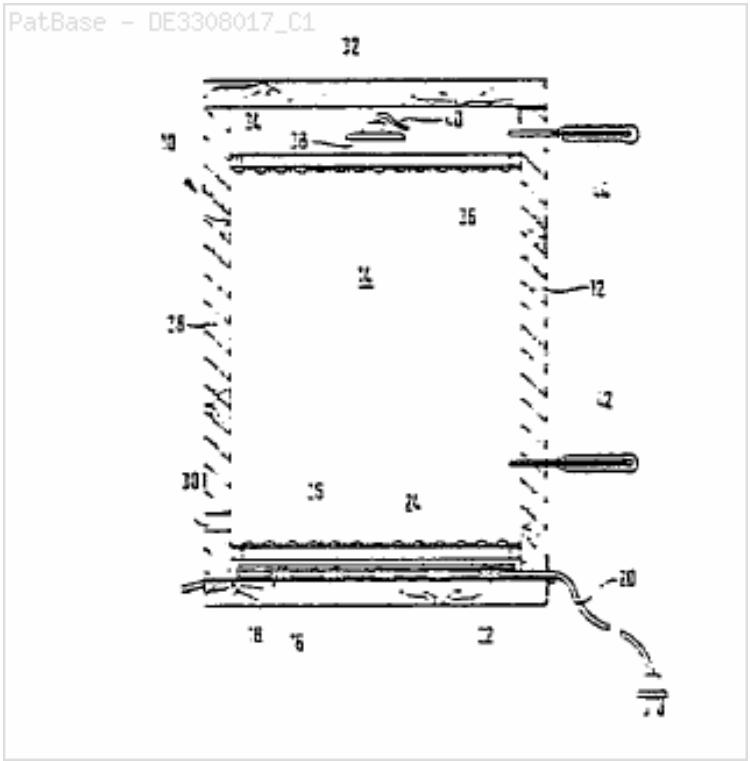
**European class:** A01K51/00

Classification Explorer

**Cited documents:** FR1274700, FR1026204,

**Forward Citations:** WO9708954, US6620025, US6475061, US6096350, EP0221488, EP0218162, DE102006021144, DE10054048, DE10028573, DE10028573,

**Abstract:**
Source: DE3308017C1 To control mites which parasitise bees, especially varroa mites, an open reservoir of formic acid is placed in the hive of the infested bee colony and vaporised by heating the vicinity of the formic acid reservoir. The vaporisation of formic acid is continued until all the mites parasitising the bees in the colony and the brood which is developing where appropriate have been killed. The apparatus for carrying out the method has a heating plate (18) whose heating effect can be controlled and which is located in the hive (10) of the colony.



0) DE3643872A1 – METHOD AND DEVICE FOR THERMALLY COMBATING THE I...

**6) Family number: 6589594** (DE3643872A1) © PatBase

**Title:** Method and device for thermally combating the infestation with mites of bee colonies

**Priority:** DE19863643872 19861222

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| DE3643872 A1 | 19880630 | DE19863643872 | 19861222 |

**Probable Assignee:** GLUECK GUENTHER JOSEF

**Assignee(s):**(std)**:** GLUECK GUENTHER JOSEF

**Inventor(s):**(std)**:** GLUECK GUENTHER JOSEF

**Inventor(s):** JOSEF GLUECK GUENTHER

**International class** (IPC 1–7)**:** A01K47/00 A01K51/00

**CPC:** A01K51/00

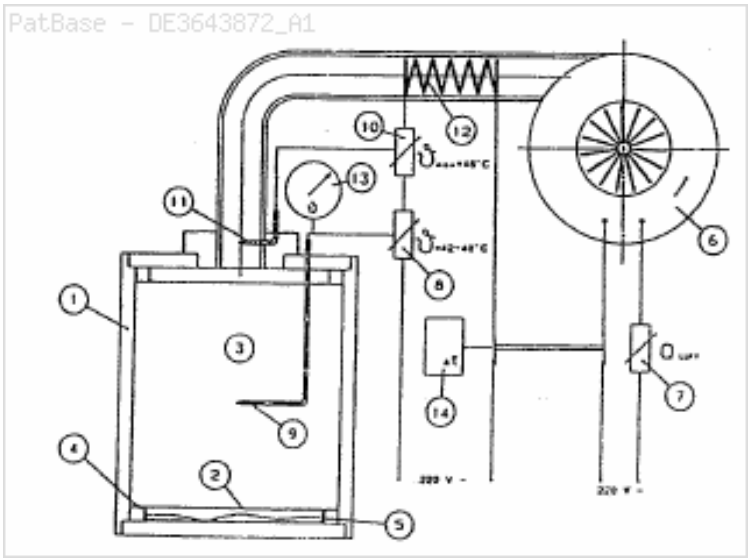
**European class:** A01K51/00

Classification Explorer

**Cited documents:** DD230752 Z, DD230752 A1,

**Forward Citations:** WO9214355, WO04098276, WO04098276, US6468129, EP2250880, DE4310406, DE19831912, DE19642624,

**Abstract:**
Source: DE3643872A1 For combating parasitic mites, in particular Varroa mites in bee colonies, an adjustable hot air flow at a temperature of approximately 42–48@C is supplied into the bee dwelling of the bee colony affected or into a treatment box, which flow induces difficulty in breathing in the parasite, dries it out, at the same time blows it off of the bees and sticks it to an adhesive insert under the wire mesh bottom of the treatment box. The hot air flow breaks up the bee cluster and prevents a renewed cluster formation during the treatment. The device for implementing the method has a hot air blower (6) which is mounted on the box (1) of the bee colony and can be controlled in the heating effect and air quantity.




- List: SS2 1–50 (FT=box and (honeybee* or bee*) and base and wall* and lid and hive*) (Results 22)

0) US2014199914A – APPARATUS FOR TREATMENT OF PLANTS

**1) Family number: 52121123** (US2014199914A) © PatBase

**Title:** APPARATUS FOR TREATMENT OF PLANTS

**Priority:**
CA20122832518 20120403 CA20162832518 20160706 JP20140502961T 20120403
CN201280028052 20120403 JP20160122350 20160621 EP20120768475 20120403
US20110472872P 20110407 US20120609549P 20120312 WO2012CA00288 20120403
US20120110323 20120403 US20160148105 20160506 US20140110323 20140311

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| BR112013025919 A2 | 20160809 | BR20131125919 | 20120403 |
| CA2832518 AA | 20131007 | CA20122832518 | 20120403 |
| CA2832518 C | 20160927 | CA20122832518 | 20120403 |
| CA2934312 AA | 20121011 | CA20122934312 | 20120403 |
| CL2013002879 A1 | 20140711 | CL20130002879 | 20131007 |
| CL53259 B | 20161021 | CL20130002879 | 20131007 |
| CN103687481 A | 20140326 | CN201280028052 | 20120403 |
| CN103687481 B | 20160907 | CN201280028052 | 20120403 |
| CN106259053 A | 20170104 | CN201610633325 | 20120403 |
| EP2693871 A1 | 20140212 | EP20120768475 | 20120403 |
| EP2693871 A4 | 20140910 | EP20120768475 | 20120403 |
| EP2693871 B1 | 20170222 | EP20120768475 | 20120403 |
| EP3165085 A1 | 20170510 | EP20160205136 | 20120403 |
| IL228762 A0 | 20131231 | IL20120228762 | 20120403 |
| IN09533DN2013 A | 20141219 | IN2013DN09533 | 20131105 |
| JP2014512813 T2 | 20140529 | JP20140502961T | 20120403 |
| JP2016185157 A2 | 20161027 | JP20160122350 | 20160621 |
| JP6066496 B2 | 20170125 | JP20140502961T | 20120403 |
| KR20140043072 A | 20140408 | KR20137029525 | 20120403 |
| MX2013011695 A1 | 20140527 | MX20130011695 | 20120403 |
| MX342194 B | 20160920 | MX20130011695 | 20120403 |
| PE04852014 A1 | 20140504 | PE20130002201 | 20120403 |
| PH2015502049 A | 20151116 | PH20150502049 | 20150911 |
| RU2013149575 A | 20150520 | RU20130149575 | 20120403 |
| RU2591722 C2 | 20160720 | RU20130149575 | 20120403 |
| US2014199914 AA | 20140717 | US20120110323 | 20120403 |
| US2016249535 AA | 20160901 | US20160148105 | 20160506 |
| US9357752 BB | 20160607 | US20120110323 | 20120403 |
| WO12135940 A1 | 20121011 | WO2012CA00288 | 20120403 |

**Probable Assignee:** BEE VECTORING TECHNOLOGY INC

**Assignee(s):**(std)**:** BEE VECTORING TECH INC ; BEE VECTORING TECHNOLOGY INC ; BI VEKTORING TEKNOLODZHI INK ; COLLINSON MICHAEL HOWARD D HEARN ; KEVAN PETER G ; SUTTON JOHN CLIFFORD ; MASON TODD GORDON

**Inventor(s):**(std)**:** CLIFFORD SUTTON JOHN ; COLLINSON MICHAEL HOWARD D HEARN ; GORDON MASON TODD ; HEARN COLLINSON MICHAEL HOWARD D ; JOHN CLIFFORD SUTTON ; KEVAN PETER G ; MASON TODD GORDON ; MICHAEL HOWARD D HEARN COLLINSON ; PETER G KEVAN ; SUTTON JOHN CLIFFORD ; TODD GORDON MASON ; SATTON DZHON KLIFFORD ; MEJSON TODD GORDON ; KOLLINSON MAJKL GOVARD D KHERN ; KEVAN PITER DZH

**Agent(s):** BERESKIN AND PARR LLP SENCRL SRL; SARGENT Y KRAHN; DR WEITZEL AND PARTNER; BERESKIN AND PARR SENCRL SRL; BERESKIN AND PARR LLP S E N C R L S R L

**Designated states:** AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

**International class (IPC 8–9):** A01G7/06 A01K A01K47/00 A01K47/06 A01K51/00 (Advanced/Invention); A01K51/00 (Core/Invention); A01K (Subclass/Invention)

**CPC:** A01K51/00 A01G7/06 A01K47/06

**European class:** A01K47/06 A01K51/00

**US class:** 1/1 449/1 449/2 449/20 449/21

Classification Explorer

**Cited documents:** WO11097749 A1, WO11026983 A1, WO10136599 A2, WO10036599 A2, WO02094014 A1, US6306386 BA, US5989100 A, US5989100, US5348511 A, US5348511, US534851 A, US5211597 A, US5189100 A, US4594744 A, US3069702 A, US3034949 A, US2485879 A, US2232343 A, US2011280839 AA, US2007224913 AA, US2007218804 AA, US2004219863 AA, US2004077291 AA, US05989100, US05348511, RU2156570 C2, RU2024223 C1, RU2024223, JP6169663 A2, JP6169663, JP6141717 A2, JP6141717, JP2001169681 A2, JP2001169681, JP06169663, JP06141717, GB1470385 A, DE10054048 A1,

**Forward Citations:** WO14117278, US9526233, US2015359204,

**Abstract:**
Source: US2014199914A A tray for positioning in an exit path of a bee hive comprises a base, a bee entrance end, and a bee exit end. Spaced apart side walls extend upwardly from the base. The sidewalls extend generally lengthwise between the bee entrance end and bee exit end. A plurality of posts extend upwardly from the base and are positioned between the bee entrance end and the bee exit end. The posts are generally circular in cross–section. The posts act as obstacles around which the bees must walk to reach the bee exit end from the bee entrance end.

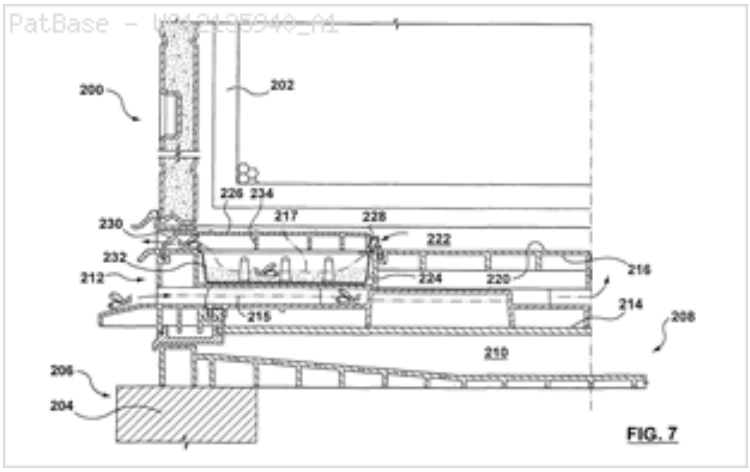


FIG. 7

0) US2211094A – STATISTICAL CARD COMPARING MACHINE

**2) Family number: 20965545** (US2211094A) © PatBase

**Title:** STATISTICAL CARD COMPARING MACHINE

**Priority:** US19380228381 19380903

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| FR859833 A | 19401230 | | 19390901 |
| GB546590 A | 19420721 | GB19390023597 | 19390816 |
| GB546602 A | 19420721 | GB19410000997 | 19390816 |
| GB546603 A | 19420721 | GB19410001705 | 19390816 |
| US2211094 A | 19400813 | US19380228381 | 19380903 |

**Probable Assignee:** REMINGTON RAND INC

**Assignee(s):**(std)**:** REMINGTON RAND INC

**Inventor(s):**(std)**:** BRAUN KARL J

**International class** (IPC 1–7)**:** G03B27/32 G06F7/00 G06F7/02

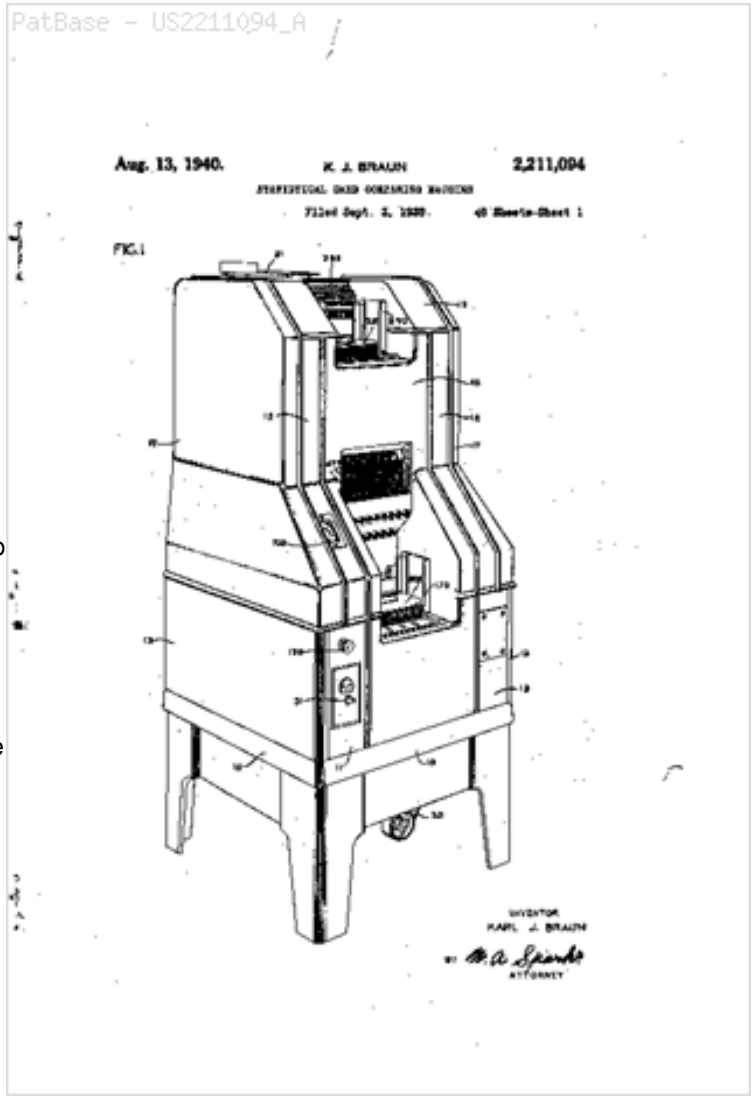
**CPC:** C01B21/082

**US class:** 234/27 234/30 235/431

Classification Explorer

**Forward Citations:** US3253462, US2976724, US2950005, US2949225, US2910228, US2866550, US2751985, US2702629, US2648222, US2603416, US2506463, DE971069, DE1187123,

**Abstract:**
Source: GB546590A [Class 106 (i)] [Also in Group VIII] A machine of the kind comprising means for sensing perforation patterns in master and detail cards, means for making a set–up of the master and pattern, separate pockets for receiving master and detail cards separate means for conveying master and detail cards to their receiving pockets, deflecting means for each conveying means arranged when operated to prevent the passing of cards to their respective pockets includes the combination with means for making a direct comparison between a perforation pattern sensed from a detail card and the contemporaneous setup made from a master card of means under the control of the comparing means to operate both said deflecting means when the result of the comparison is disagreement. The card feeding and comparing mechanism may be similar to that described in Specification 510,910, [Group VIII], and the driving and c. mechanism similar to that described in U.S.A. Specification 2,044,119. Master cards are fed singly from a box 290, Fig. 25, by a picker 292 into a sensing space between perforated plates 330, 331 against a stop 335 and whilst therein their perforations are sensed by a reciprocating pin box 360, of which certain pins located opposite to perforations in the card are locked in downwardly displaced position by slides 362 so that corresponding pins 395 in the reading retaining pin–box are also downwardly displaced and locked by slides 397, the displaced pins 395 in turn displacing pins 435 in the master card comparing pin assembly 425. Detail cards are fed singly from a box 170, Fig. 26, by a picker 172 into a sensing space between plates 220, 221 against a stop 265 and sensed by a reciprocating pin assembly 226, of which the displaced pins displace other pins 250, translator pins 260 and finally pins 455 in the detail card comparing pin assembly 445. The displaced comparing pins 435 and 455 interact through comparing levers 460 having forked ends engaging projections 464, 466 of smaller diameter than the forks so that a displacement of a pin 435 will transmit through a lever 460 only a partial displacement of a pin 455, and. vice versa; other projections 472, 474 coact with cam points 471, 473 in slots on comparison slides 470 and unless the perforation columns in the compared cards correspond one or more of the projections 472, 474 will remain located on a cam point or points 471, 473 causing comparison slide 470 to be held displaced to the front of the machine with the result that the wide part of an interponent bar 476 in its raised effective position will prevent the free rearward swing of a bail bar 640. The cams controlling the feeding, punching, sorting and stopping of the machine are mounted on a sleeve 600, Fig. 60, to which are keyed two ratchets 605, 615 each with four teeth and four dwells arranged staggered and adapted to be engaged by pawls 608, 618 mounted on levers 610, 620 so disposed that normally pawl 608 engages a dwell on ratchet 605 and pawl 618 is held out of engagement with ratchet 615 by a pin 623 on pawl 608. When as the result of a disagreement between compared master and detail cards bail 640 is unable to complete its rearward swing as shown in Fig. 60 the bell crank lever 639 prevents downward movement of lever 610 on the next downward movement of push rod 625 and lever 620 moves down alone causing pawl 618 to become free of pin 623 and later to engage a tooth on ratchet 615 and then on the next rise of push rod 625 to rotate the control cam sleeve 600 through one step. Master card picker operating link 294 is operated as shown in Fig. 32 by a bell crank 299 and slide 301 moved forwardly by a cam 190 and rearwardly by a spring 303 detail card picker operating link 174 is operated by an arm 177 and slide 179 moved forwardly by cam 190 and rearwardly by spring 303; slide 301 can be held out of action by engaging a pin 304 thereon with a latch 305 on a rock shaft 195 and slide 179 by engaging a pin thereon with a second latch 194 on rock shaft 195. For this purpose shaft 195 is rocked by a crank and vertical link 647 adapted to be operated through levers and links by one or more of the cams on the control cam sleeve 600, link 647 in its high position locking feed slide 179 allowing master card feeding only and in its low position locking feed slide 301 allowing detail card feeding only and in its intermediate position locking neither feed slide and allowing simultaneous feeding of both master and record card. The various control cams on sleeve 600 are referred to later. Punching mechanism.–In many types of operation the entire perforation pattern in the master card is punched in the detail card by mechanism including a removable punch translator 485, Fig. 50, the pins 490 of which transfer the displacements of the master card comparing pins 435 to a reciprocal set pin box 495 with which reciprocates a plate 516 carrying punch pins 517 so that the detail



card which has been passed to a punch space between two plates 520, 523 is perforated to agree with the master card. If certain columns of data are not to be transferred the requisite keys 385, Fig. 25, are set in their locking positions. Perforation may take place in the event of agreement of designation data in corresponding columns of master and c. record cards for which the requisite interponent 476 has been set in elevated position and prevented when there is disagreement. The punch translator 485 is placed in position only when detail cards are to be punched. Feed control mechanism.–Five feed control cams are mounted on the control sleeve 600 which as set out above is rotated through 45 degrees when a disagreement is sensed by the comparison mechanism each of which cams may be rendered operative by lever mechanism operated by projecting lugs on an equal number of discs on a parallel sleeve 702, Fig. 32, settable by an operation selector dial at the front of the machine. One of these control cams is in the form of a plain disc 710, Fig. 32, engaged by a roller 711 on a lever 712 carried by another lever 714 and connected by a link 715 to an arm of a shaft 650 having another arm 648 connected to the link 647 controlling the locking of the feed slides. This feed control cam or ring 710 is of such diameter as to effect locking of neither feed slide and permits master and record cards to be fed simultaneously both on agreement and disagreement since although roller 711 is held in contact with cam 710 by the projection 717 on operation selector disc 718 rotation of the concentric cam 710 will have no influence on link 647. Other cams on sleeve 600 may be operative during this type of feeding to effect an agreement or disagreement card sorting, card punching, or stopping of the machine to insert extra cards. In addition to feed cam 710 four other feed control cams mounted on sleeve 600 may be caused to operate the link 647 and are rendered operative by the selector dial. All five feed cams are shawn in Fig. 69. The second cam 720 has four high dwells of a height permitting simultaneous master and detail card feeding on agreement and four lower dwells causing detail card feeding only on disagreement or vice versa since as shown in Fig. 69 this cam has a second key way for setting it displaced through 45 degrees on sleeve 600. Also on a low part of cam 720 becoming operative a rearward arm 655, Fig. 70, releases a shoulder 417 on a catch 416 from the arm 418 allowing the latter to be lifted by push rod 422 without raising arm 415 and rotating shaft 412 whereby operation of the retract bar 405, Fig. 25, by the link 410 is prevented and the set–up of the last fed master card reading retaining pins 395 is retained until an agreeing detail card is sensed whereupon sleeve 600 is rotated to bring a high dwell of cam 720 into operation. The third feed control cam 730 is a concentric ring of smaller radius causing detail card feeding only both on agreement and disagreement, the set–up by the master card reading retaining pins being maintained. The fourth feed control cam 740 has four low dwells of the radius of disc 710 causing simultaneous master and detail card feeding on agreement and four high dwells which on disagreement lift link 647 to its highest position causing master card feeding only. Since the last sensed detail card has to be retained in the sensing space until a corresponding master card is again sensed the card stop 265, Fig. 42, is held in its lower closed position all the time a high dwell on cam 740 is effective by a hook 660 on an arm 649 on shaft 650 engaging lever arm 281. The fifth feed control cam 750 has low dwells of same radius as the highs of cam 740 causing detail radius a cam disc 730 and high dwells of same card feeding only on agreement and master card feeding only on disagreement, the low dwells also causing retention of the set–up of the master card reading retaining pins and the high dwells also causing detail card stop 265 to be held closed. Cams 740 and 750 have second key ways at 45 degrees for adjustment in sleeve 600 to effect above operations on agreement and disagreement or vice versa. Sorting control mechanism.–Referring to Fig. 25 the master cards may be sorted into a rear box 25 or into an eject box 26 by operating a deflector 680 and the detail cards into a rear box 27, 27a, or into an eject box 28 by operating a deflector 690. These deflectors may be operated to eject master cards and detail cards for which there are no detail cards or master cards with corresponding designation punchings and are controlled by a cam 780, Fig. 71, with four low dwells and four high dwells such that when sleeve 600 is rotated bringing a high dwell into contact with roller 781 on bell crank 782 deflector 680 is raised by link 683 and deflects a d

0) US2012077412A – HIVE–MOUNTED DISSEMINATOR DEVICE

**3) Family number: 43586732** (US2012077412A) © PatBase

**Title:** HIVE–MOUNTED DISSEMINATOR DEVICE

**Priority:** EP20100757737 20100529 GB20090009172 20090529 GB20100006909 20100426 WO2010EP57508 20100529

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
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| CA2763505 AA | 20111124 | CA20102763505 | 20100529 |
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| WO10136599 A2 | 20101202 | WO2010EP57508 | 20100529 |
| WO10136599 A3 | 20110120 | WO2010EP57508 | 20100529 |

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**Designated states:** AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

**International class (IPC 8–9):** A01K47/06 A01K51/00 (Advanced/Invention)

**CPC:** A01K47/06 A01K51/00

**European class:** A01K47/06 A01K51/00

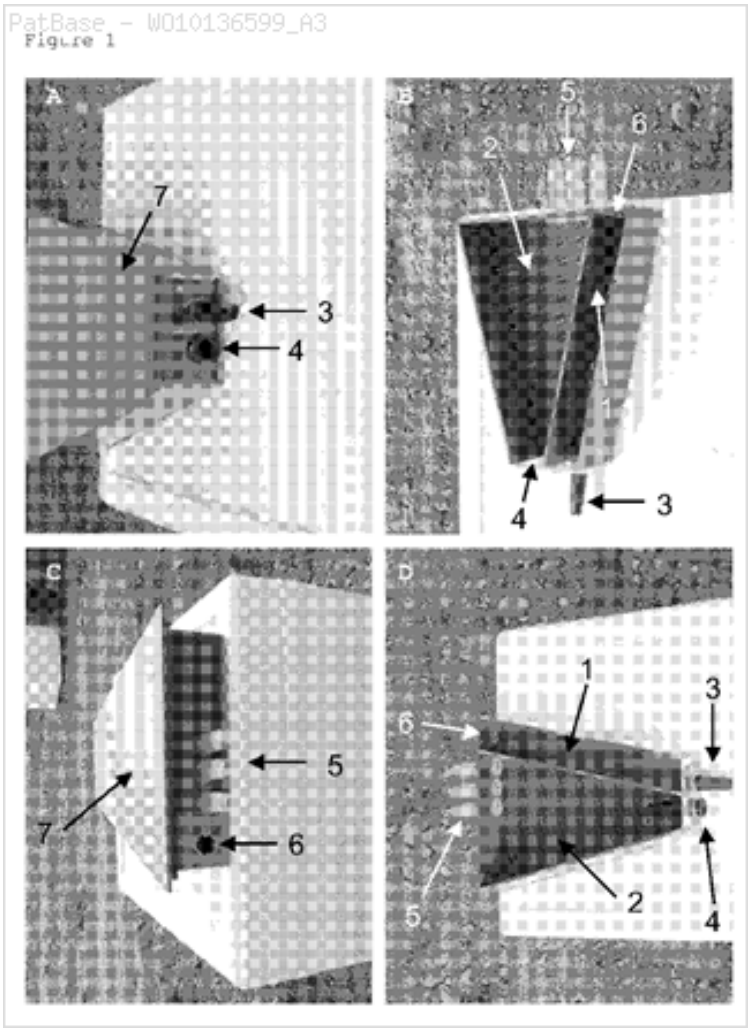
**US class:** 449/20 449/20P

Classification Explorer

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**Forward Citations:** WO12135940, US9526233, US9380777, US9357752, US9332752, KR101353920, EP2693871, EP2693871, CN103687481,

**Abstract:**
Source: US2012077412A The present invention relates to the dissemination of biological control agents or other substances through the use of bees, in particular bumblebees. It relates to a disseminator device, installable in or in connection to the hive, and which contains biological control agents or other substances which are picked up, carried and disseminated by the bees when leaving the hive.



0) AU2008201117A – BEE HIVE

**4) Family number: 42396325** (AU2008201117A) © PatBase

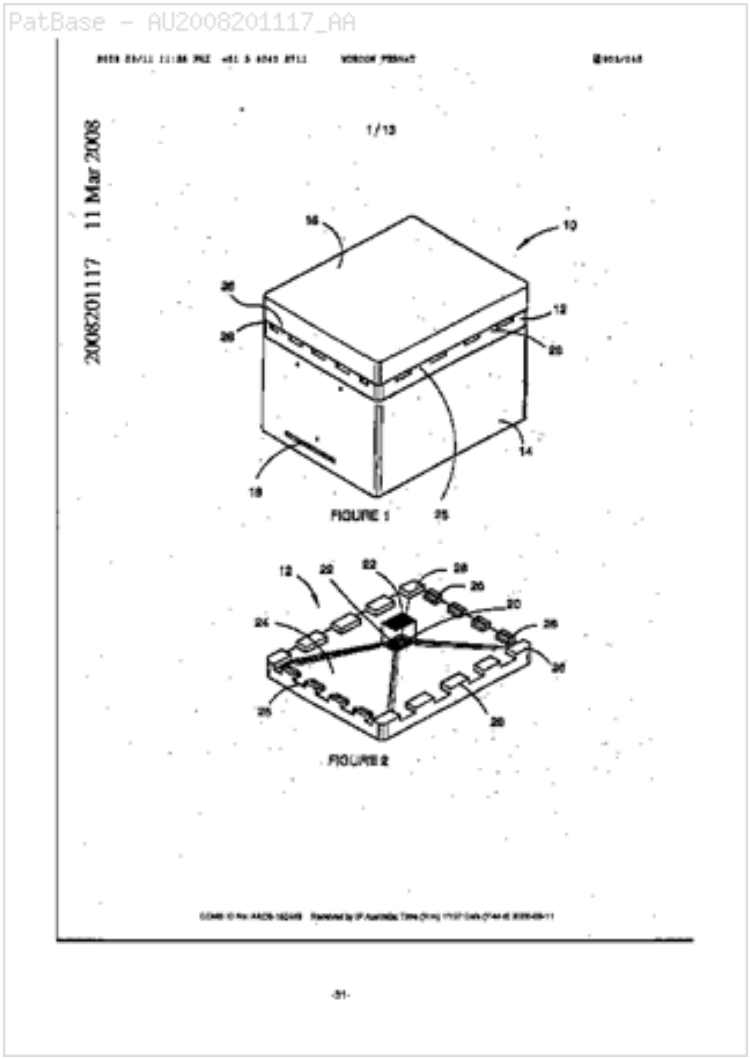
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|---|---|
| **Title:** | Bee Hive |
| **Priority:** | AU20070901336 20070314 AU20080201117 20080311 |

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| AU2008201117 AA | 20081002 | AU20080201117 | 20080311 |

| | |
|---|---|
| **Probable Assignee:** | HASSON SEAMUS |
| **Assignee(s):**(std)**:** | HASSON SEAMUS |
| **Assignee(s):** | HASSON SEAMUS TERRENCE ; SEAMUS HASSON |
| **Inventor(s):**(std)**:** | HASSON SEAMUS TERRENCE |
| **Inventor(s):** | SEAMUS TERRENCE HASSON |
| **Agent(s):** | MORCOM PERNAT |
| **International class (IPC 8–9):** | A01K47/00 A01K47/06 (Advanced/Invention); A01K47/00 (Core/Invention) |
| **CPC:** | A01K47/00 A01K47/06 |
| **European class:** | A01K47/00 A01K47/06 |
| Classification Explorer | |
| **Forward Citations:** | WO14005179, US9320264, FR3042384, |

**Abstract:**
Source: AU2008201117A 2008 03/11 11:28 FAX +61 3 9543 2711 MORCOM PERNAT Ilj 31/045 00 28 Abstract A bee hive enclosure (10) comprising, a base (111); a wall (14) extending upwardly from the base, surrounding a hive Cavity for I> bees; a lid and 0 an access opening (18) through which bees can enter or exit the enclosure, 00 10 wherein the bee hive enclosure includes moisture/humidity control means o chosen from at least one of, a sloping base (111,130) arranged to direct liquid accumulating on the base to flow through an outlet and an upper cavity defined between a spacer member (12) and the lid (16) when it is mounted on the spacer member, the upper cavity being in fluid communication with the interior cavity of the bee hive enclosure through a breathing opening (20) in the spacer and ventilation means (26) associated with the upper cavity and the external environment whereby moist air may rise from the bee hive enclosure through the upper cavity and out of the ventilation means. 2008 03/11 11:28 FAX +461 3 9543 2711 RCMPNAIi03/4 MORCOM PERNAT Q 032/045 00 1/13 26 00 18/ Figure 1 26 24 Figure 2



0) SU882492T – ABOVE–FRAME FEEDING DEVICE FOR BEES

**5) Family number: 6423182** (SU882492T)

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|---|---|
| **Title:** | ABOVE–FRAME FEEDING DEVICE FOR BEES |
| **Priority:** | SU19792765877 19790515 |

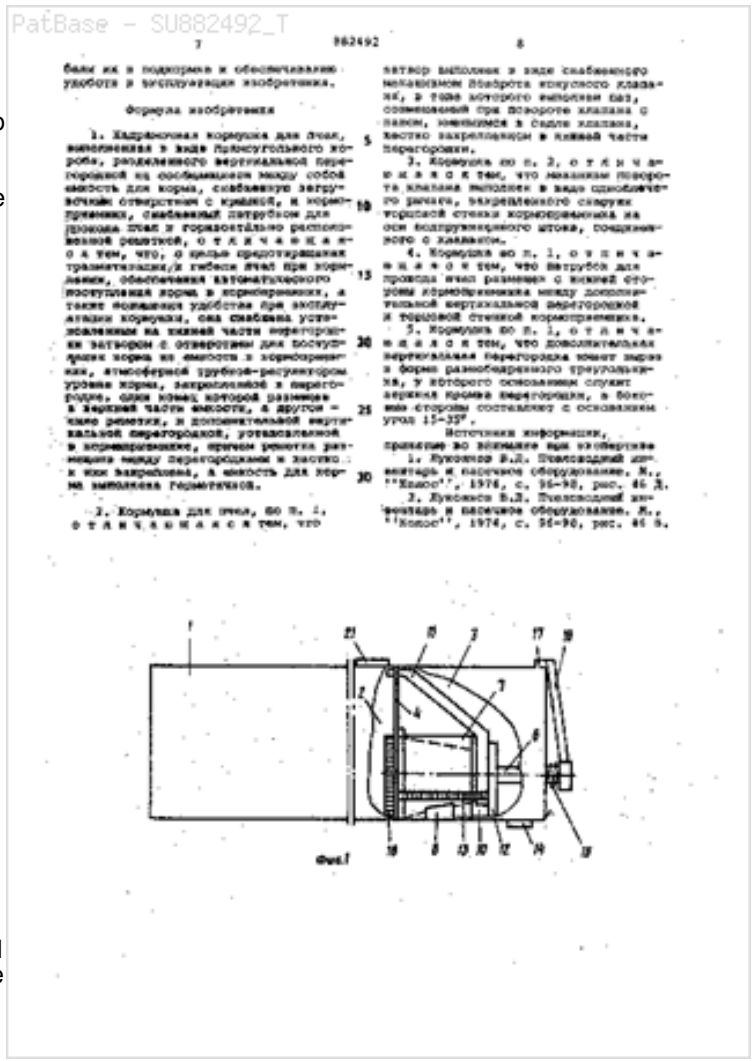
**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| SU882492 A1 | 19811123 | SU19792765877 | 19790515 |
| SU882492 T | 19811123 | SU19792765877 | 19790515 |

| | |
|---|---|
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| **Assignee(s):** | PASECHNICHENKO NIKOLAJ A SU |
| **Inventor(s):**(std): | PASECHNICHENKO NIKOLAJ A |
| **Inventor(s):** | PASECHNICHENKO NIKOLAJ A SU |
| **International class (IPC 8–9):** | A01K53/00 (Advanced/Invention); A01K53/00 (Core/Invention) |
| **International class (IPC 1–7):** | A01K53/00 |

Classification Explorer

**Abstract:**
Source: SU882492T Invention relates to beekeeping inventory, and specifically to nadramochnym feeders having application in feeding the bees sugar or honey si Ropa fed to replenish winter fodder stocks or replacement pad evogo–feed when giving seven bee m motivating and therapeutic feeding, and can be used on state farms, collective farms apiaries and bee apiaries enthusiasts. Known nadramochna schichnogo feeder type in which corridor for the passage of bees is in the middle of the wall and its height is lower degree knock feeders that provides Prokhorov bees v.neposredstvenno main compartment, where lies food (sugar syrup). In the same department placed raft lattice 1. However Dunn feeder with imeyuschimis rafts does not meet modern requirements of beekeeping as rafts associated with the saturation of their contents feeders, jamming, sticking them to the inner portion of the trough often deprived of their buoyancy, which leads to malfunction last 1ey and bees trapped under the raft, doomed to destruction, especially when filling feeders fertilizing (sugar syrup). Closest to the proposed is nadramochna feeder for the bees, having a body in the form of a rectangular box, divided by a vertical partition for communicating between a container for food, equipped with feeding hole with krshikoy and kormopriemnik, supply pipe for the passage of bees and a horizontal grille, through which the bees have access tt mu {2 cor. The main disadvantage of the known nadramochnoy feeders is that. That large mass of bees die when feeder is filled with sugar syrup, which tends to weaken; bee colonies as well. general and all the families of the apiary. Sunken in the manger and pchelyrazlagayuts contaminate sugar syrup that is a source of infection for the remaining bees. Further, the structure is



leaking trough, so that the heat generated by the bees inside ul, feeders out through the slits in the atmosphere that clearly harms the bee family. This is especially skazyvaets in the spring, when the presence of heat in the hive is particularly important for the rapid build–up of young bees, the warmth chvl is a major positive factor. The purpose of the invention – to prevent trauma and death of bees in korKshenii, providing automatic feed arrival kormopriem nickname, as well as increased convenience when eksgshuatatsii feeders. This goal is achieved by the fact that Korg., Made in the form of a rectangular box, divided by a vertical partition for communicating between a container for food, feed opening fitted with a lid, and kormopriemnik – equipped with pipe for the passage of bees and Mr. Hor experimentally located bars, additional tively set the shutter at the bottom of the partition with an opening for the arrival of the vessel in the feed forage receiver, barometric tube–feed regulator level enshrined in the septum, one end of which is substituted with time at the top of the tank and other goy – below the grille, and additional vertical partition is mounted on a kormopriemnike and the lattice placed between the baffles and gesture to them fixed, and the capacity to feed made airtight. When the shutter is designed as having a mechanism for turning cone valve, water in the body which is a groove, combines fourth when turning the valve with a groove in the valve seat imeyuschims rigidly secured to the lower portion of the partition. Furthermore, Pan stem turning mechanism is in the form of a single–arm lever, fixed on the outside of the end wall on the axis of the spring–loaded kormopriemnika rod connected with the valve, wherein the outlet for passage pche placed on the lower side kormopriem nick between the vertical wall and the additional end wall kormopriemnika. Furthermore, additional vertical partition has a recess in the shape of an isosceles triangle, whose upper edge osnovaniem.sluzhit septum and lateral storog us comprise a base angle of 15–35. "Fig. 1 shows a nadramoch Auto Feeder for bees partial cutaway of its wall, general view; Fig. 2 – the same, right side; fig.Z at – the same, top view, Fig. raerez A–A in Figure 3; Fig. s – p Res B–B in Fig. 3 (partial vfe Zom partitions).; Fig. b – the gap B–B in Fig. 3. Nadramochna Auto Feeder for bees comprises a housing 1 with the hermetic vessel 2 to be filled with supplementary fertilization (sugar syrup) and kormootdel 3, separated by a vertical partition wall 4 which at the bottom has kormozatvor configured as a conical valve 5 to the rod 6, 7 arranged in the seat, the latter is fixed on the partition zhostko 4. seat bottom portion 7 has a recess 8 which is aligned with the slot 9 formed in the tapered valve 5. When combining these kormozatvore grooves formed in a common channel serving for the passage of feeding (syrup or other liquid) from a hermetic container 2 in kormopriemnik 10.For ADF feeding and supporting its desired level 10 in kormopriemnike aspirated tube 11 there is connected by one end to the hermetic container 2 through the upper part of the partition 4 and the other end is fed to the

middle kormopriemnika 10, wherein the gap between the end of the tube 11 and atmospheric kormopriemnika lower base 10 is formed in the range of 4–6 mm, which represents the desired level of feed in kormopriemnike 10. latter has a septum 12, the sides of which are made vshe an inclined plane with respect to its middle part, at 15–3, the trough ensures trouble–free during the emergency ul situation (eg, a beehive filled with cor ushkoy nakrenils in one direction or another by 15–35 and even 90, with sugar syrup feeders not vylets, thereby not applied harm bee apiary seven meters, which can not reach a certain manger). Stselyu uncontaminated feed, for example, the bodies of bees and convenience for taking a podkorm1 and bees kormopriemnik 10 is provided with a mesh ladder 13 with a thickness of 1 mm and 2–2.5 mm diameter holes. Gangway is rigidly fixed between 4 and 12 partitions, and installing it directly above the surface level of feeding, the depth of which is made in the range of 4–6 mm. Kormootdela lower base 3 has an opening 14 to 10 kormrpriemniku for bees. Cone valve 5 is pressed against the seat by a spring 7 15 placed at one end of the rod used, while it abuts one end wall of the housing end portion 1, and–other–g single–arm lever 16, the latter serves to rotate the cone valve in the saddle 7. stopper formed on an upper cha.sti single–arm lever 16 to rotate the cone valve 5 in the saddle 7.. only in its extreme positions. Left extreme position single–arm lever 16 provides a combination of saddle slot 8 with slot 7 9 5 cone valve, thereby forming one ob1tsy channel. Right position single–arm lever 16 disunite a slot 8 with slot 7 Seat 9 cone valve 5 with a common channel loses its device. For arrival cleaner feed in kormopriemnik 10 before kormozatvorom a filter 18 in a grid. For fertilizing filling and sealing of the trough and feeding the filtration of extraneous predmtov, clogging guides sugar syrup on top of the hermetic vessel 2 is formed with a neck 19, a filter 20 and a lid 21, the latter is provided by sealing the container 2. For visual observation occurring in schim kormootdele 3, in its upper part, holds smtrovoe window 22 made of transparent material such as plexiglass. The entire device may be manufactured feeders such as plastic or sheet metal food. feeder operates as follows. Pass 14 kormootdela 3 feeders in alignment with the opening potolka.ul. Then, single–arm lever 16 is moved to the right end position to Snopa restrictor 17 in the housing 1 feeder. At this point, the saddle 7 is moved, and the valve cone 5, and the grooves 8 and 9 are disconnected to and kormozatvora common channel for some time loses its device. / By this implementation of the dressing kormoeatvora hermetic container 2 does not flow into kormopriemnik 10 19 Thereafter, the neck is released from the lid 21, and seal the container 2 is filled with supplementary fertilization (sugar syrup or other liquid) which passes through the filter 20 is cleaned of foreign objects and after filling the container lid 21 fertilizing neck 19 is made to ensure a hermetic vessel 2. Then single–arm lever 16 is moved to the left

position kraynee to stop limiter 17 in the housing 1 trough this conical valve seat 5 in 7 moves in the working position in alignment this groove Seat 7 8 9 slot cone valve 5. This combination creates one of slots kormozatvora common channel on which of the hermetic container 2 passes through the dressing 18 in the filter kormopriemnik 10 for bees, where the level of feeding comes to the bottom plane of the ladder 13. prdkormki At this level of the lower end of the atmospheric tube 11 is connected to the food source, which closes the opening of the tube. . By this arrangement of the atmospheric air intake pipe 11 in a hermetically sealed container 2 is stopped, while in the hermetic container 2 is generated pressure below atmospheric pressure, which leads to stop the flow of feed from a channel 10 for kormopriemnik bees. Thus, the dressing is always situated directly beneath the ladder 1 bees coming from ul pass through the passage 14 to 3 kormootdela kormopriemniku 10 for bees, where due to a rigidly fixed ramp 13 and a constant level in the feed for 10 kormopriemnike bees provided favorable conditions for taking a feeding bees, the same and contributes to a constant temperature without continuous Cove in kormootdele 3. As reduction in feeding kormopriemnike 10 through the hole vacated by feeding atmospheric air enters the tube 11 in an airtight container 2, where the atmospheric pressure is reduced, which ensures the supply feeding from a hermetic container 2 from channel kormozatvora v.kormopriemnik 10. Due to a predetermined level in the feed opening 10 kormopriemnike atmospheric tube 11 is closed, the air in the same airtight container 2 is not received, and ensures that stop the flow of feed in kormopriemnik 10 for bees. admissions process feed in kormopriemnik 10 occurs automatically to polnogo.osvobozhdeni hermetic container 2 from feeding. Having kormozatvorom hermetic container with the feeder is completely eliminated in the access zone immediate bee feeding located in the hermetic container that allows to reduce the death of bee 100 percent as compared with the device known feeders. In this economy the proposed feeders provided with more efficient use of feed. ladder rigidly mounted kormopriemnike provides cleanliness dressing from soiling her corpses of bees is very important to protect bee health from infectious diseases. Implementation automatically feeds and feeding Chi constant level in kormopriemnike for bees using kormozatvora and atmospheric tube connecting kzdih airtight container for kormopriemnikom bees leads f 100 percent – from Nome sohranenik bees, their destruction in feeding and provisioning facilities in operation of the invention. CLAIMS 1. Nadramochna feeder for bee made in the form of a rectangular, divided by a vertical partition communicating between a container for feed, with an opening provided with a lid zagruzsP1N1M and kormopriemnik provided with nozzle for passage of bees and horizontally positioned grating, characterized in that, in order to prevent trauma / death of bees and when feeding, automatic: feed

kormopriemnik arrival, as well as the operation of convenience povsheni feeders, it is provided on the bottom of ustanovlennsh partition gate with an opening for postupJ | eni feed of eknsosti in korkyupriemnik, atmospheric tube –layer feed regulator, in eakreplenyoy partition, one end of which is situated in the upper part of the tank, and another lower reoyutki and dopolnitelyoy Kalnoy vertical baffle installed in korkyupriemnike and the lattice meschena times between partitions and rigidly secured thereto, and a container for feed made airtight.. 2. Feeder for bees according to claim I, characterized in that Figure 1 A yes 1B August 13, Yu JZ P IS Shutter is designed as having a mechanism for rotating cone valve, which is made in the body groove aligns with the rotation of the valve with a groove in the valve seat imekitsims rigidly secured to the lower portion of the partition. 3.Kormushka according to claim 2, characterized in that the control valve mechanism is configured as a single–arm lever, fixed on the outside of the end wall on the axis of the spring–loaded kormopriemnika rod connected to the valve. 4.Kormushka according to claim 1, characterized in that the conduit for the passage of bees is placed on the lower side between kormopriemnika additional vertical partition wall and the end kormopriemnika. 5.Kormushka according to claim 1, characterized in that an additional vertical baffle plate has a cutout in the shape of an isosceles triangle whose base is the upper edge of the partition and the sides comprise a base angle of 15–35. Sources of information received into account in the examination of new VD 1.Luko Beekeeping tools and equipment Pasechnoye. M. FKolos, 1974, p. 96–98, Fig. 46 D. 2.Luko new. Beekeeping equipment p Pasechnoye equipment. Moscow, Kolos, 1974, p. 96–98, Fig. 46 B. / 5 Figure 2 «T fmg.Z d

**6) Family number: 57415838** (US2014271635A) © PatBase

**Title:** TREATMENT OF CANCER USING HUMANIZED ANTI–CD19 CHIMERIC ANTIGEN RECEPTOR

**Priority:** US20130802629P 20130316 US20130838537P 20130624 US20140214728 20140315 WO2014US29943 20140315 US20150802629P 20150316

**Family:**

| Publication number | Publication date | Application number | Application date |
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| AU2014236098 AA | 20140925 | AU20140236098 | 20140315 |
| CA2907100 AA | 20150915 | CA20142907100 | 20140315 |
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| UY35468 A1 | 20141031 | UY20140035468 | 20140314 |
| WO14153270 A1 | 20140925 | WO2014US29943 | 20140315 |

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**Assignee(s):** NOVARTIS INSTITUTES FOR BIOMEDICAL RESEARCH INC

**Inventor(s):**(std)**:** BOGDON JENNIFER ; BROGDON JENNIFER ; JUNE CARL H ; LOEW ANDREAS ; MAUS MARCELA ; SCHOLLER JOHN ; MARCELA MAUS ; JOHN SCHOLLER ; JENNIFER BROGDON ; CARL H JUNE ; ANDREAS LOEW

**Agent(s):** DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; SMART AND BIGGAR; CARLOS R OLARTE GARCIA; WILDING JAMES ROGER; YAMAZAKI HIROSHI; TOMITA KENJI; TANAKA MITSUO; LAWRENCE LAURIE BUTLER

**Designated states:** AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

**International class (IPC 8–9):** A61K35/14 A61K35/17 A61K35/74 A61K35/76 A61K35/761 A61K38/00 A61K39/395 A61K45/00 A61K48/00 A61P35/00 A61P35/02 C07K C07K14/705 C07K14/725 C07K16/28 C07K16/30 C07K16/46 C07K19/00 C12N1/15 C12N1/19 C12N1/21 C12N15/09 C12N15/11 C12N15/13 C12N15/62 C12N15/85 C12N15/86 C12N5/0783 C12N5/10 C12N5/22 C12N5/783 (Advanced/Invention);
A61K A61P C07K C12N (Subclass/Invention)

**CPC:** A61K2039/505 C07K14/7051 C07K14/70578 C07K16/2803 C07K2317/24 C07K2317/622 C07K2317/73 C07K2319/00 C12N5/0636 C12N2510/02 C07K14/70503 C07K2319/03 C07K2317/565 C07K2317/94 A61K39/395 C07K16/3061

**US class:** 424/133.1 530/387.3 536/23.53

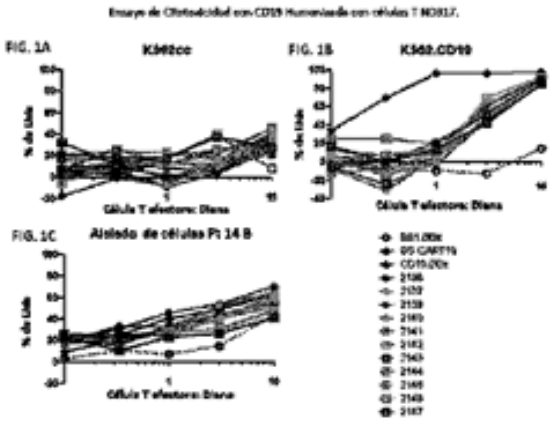
Classification Explorer

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**Forward Citations:** WO17079705, WO17079703, WO17064222, WO17046747, WO17040930, WO17035117, WO17028374, WO17027291, WO17015427, WO17009843, WO16203048, WO16196384, WO16174405, WO16168595, WO16164731, WO16164731, WO16164580, WO16149485, WO16126608, WO16120216, WO16113203, WO16097231, WO16090190, WO16090034, WO16090034, WO16064929, WO16061368, WO16057705, WO16055551, WO16044605, WO16033570, WO16014565, WO16014553, WO16014530, WO15187528, WO15157252, US9573988, US9394368, US2015024482, US2014328812, CN105950645,

**Abstract:**
Source: US2014271635A The invention provides compositions and methods for treating diseases associated with expression of CD19. The invention also relates to chimeric antigen receptor (CAR) specific to CD19, vectors encoding the same, and recombinant T cells comprising the CD19 CAR. The invention also includes methods of administering a genetically modified T cell expressing a CAR that comprises a CD19 binding domain.

PatBase - UY35468_A1




SHEET 1 OF 6

0) US2004180059A – PARENTERAL FORMULATIONS OF A PEPTIDE FOR THE TR...

**7) Family number: 30754300** (US2004180059A) © PatBase

**Title:** PARENTERAL FORMULATIONS OF A PEPTIDE FOR THE TREATMENT OF SYSTEMIC LUPUS ERYTHEMATOSUS

**Priority:** US20030439950 20030114 US20030439950P 20030114 US20040758572 20040114 US20070985068 20071112 WO2004US00955 20040114

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| AU2004206844 AA | 20040805 | AU20040206844 | 20040114 |
| BRPI0406737 A | 20051220 | BR2004PI06737 | 20040114 |
| CA2513331 AA | 20050714 | CA20042513331 | 20040114 |
| CN1761477 A | 20060419 | CN200480006991 | 20040114 |
| CO5640149 A2 | 20060531 | CO20050079319 | 20050810 |
| CR7936 A | 20060531 | CR20050007936 | 20050809 |
| EA008438 B1 | 20070629 | EA20050001129 | 20040114 |
| ECSP055960 A | 20060419 | EC2005SP05960 | 20050811 |
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| HK1076057 A3 | 20060106 | HK20050110546 | 20051122 |
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| IN03481DN2005 A | 20061229 | IN2005DN03481 | 20050804 |
| IN235111 B | 20090731 | IN2005DN03481 | 20050804 |
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| NO20053761 A0 | 20050808 | NO20050003761 | 20050808 |
| NZ541659 A | 20070531 | NZ20040541659 | 20040114 |
| UA83816 C2 | 20080826 | UA20050007998 | 20040114 |
| US2004180059 AA | 20040916 | US20040758572 | 20040114 |
| US2008287366 AA | 20081120 | US20070985068 | 20071112 |
| US7294687 BB | 20071113 | US20040758572 | 20040114 |
| WO04064788 A2 | 20040805 | WO2004US00955 | 20040114 |
| WO04064788 A3 | 20050324 | WO2004US00955 | 20040114 |
| ZA200506205 A | 20061227 | ZA20050006205 | 20050803 |

**Probable Assignee:** YEDA RESEARCH AND DEVELOPMENT CO

**Assignee(s):**(std)**:** COHEN VERED SHARON ; GILBERT ADRIAN ; KLINGER ETY ; NAFTALI ESMIRA ; TAVA PHARMACEUTICALS IND LTD ; TEVA PHARMA ; WEINSTEIN VERA ; TEVA PHARMACEUTICAL INDUSTRIES LTD

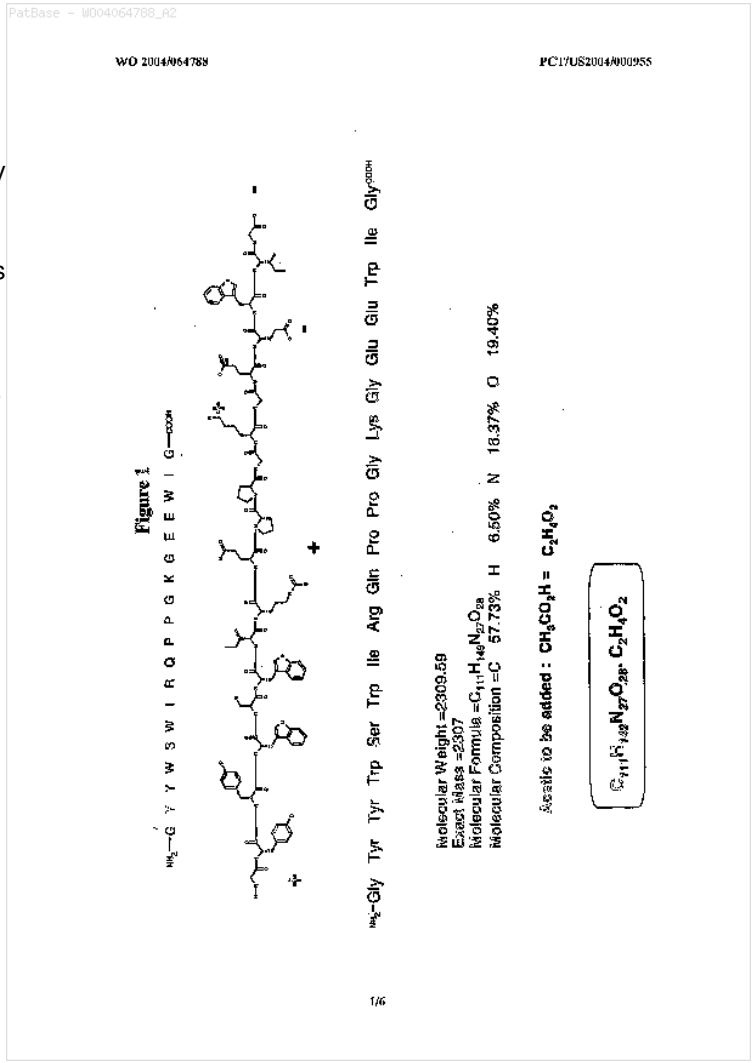
**Assignee(s):** TEVA PHARMACEUTICAL IND ; YEDA RESEARCH AND DEVELOPMENT CO ; TEVA PHARMACEUTICAL IND LTD ; TEVA PHARMACEUTICALS USA INC ; TEVA PHARMACEUTICAL INDUSTRIES LIMITED ; TAVA PHARMACEUTICALS INDUSTRIES LTD ; TEVA PHARACEUTICAL IND LTD

**Inventor(s):**(std)**:** ADRIAN GILBERT ; COHEN VERED SHARON ; ESMIRA NAFTALI ; ESMIRA NEFTALI ; ETY COHEN VERED SHARON NAFTALI ; ETY KLINGER ; GILBERT ADRIAN ; KLINGER ETY ; NAFTALI ESMIRA ; NFTALI ESMIRA ; SHARON COHEN VERED ; VERA WEINSTEIN ; WEINSTEIN VERA

**Inventor(s):** KLINGER ETR ; COHEN VERED SHARON NAFTALI ESMIRA WEINSTEIN ; COHEN VERED SHARON NAFTALI ESMIRA WEINSTEIN VERA G

| | |
|---|---|
| **Agent(s):** | FB RICE; HEENAN BLAIKIE LLP; SILVANA MARIA LOPEZ DIAZ; JOHN P WHITE COOPER AND DUNHAM LLP; COOPER AND DUNHAM LLP; JOHN P |
| **Designated states:** | AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW |
| **International class (IPC 8–9):** | A61K31/724 A61K31/74 A61K38/00 A61K38/10 A61K39/00 A61K39/38 A61K39/395 A61K47/40 A61K47/48 A61K51/10 A61K9/00 A61K9/19 A61P37/00 A61P37/02 A61P37/06 (Advanced/Invention);<br>A61K38/00 A61K38/10 A61K47/40 C07K7/08 (Advanced/Non–invention);<br>A61K39/395 A61P37/00 (Core/Invention);<br>A61K (Subclass/Invention) |
| **International class (IPC 1–7):** | A61K31/724 A61K38/00 A61K38/10 A61K39/00 A61K39/38 A61K47/40 A61K51/10 |
| **CPC:** | A61K9/0019 A61K9/19 A61K31/724 A61K38/10 A61K47/48969 B82Y5/00 |
| **European class:** | A61K31/724 A61K38/10 A61K47/48W18B A61K9/00M5 A61K9/19 B82Y5/00 |
| **US class:** | 424/184.1 424/184.100P 424/78.08 514/1.1 514/1.100P 514/13 514/20.6 514/20.600S 514/58 514/58S 530/300 |
| Classification Explorer | |
| **Cited documents:** | WO9931066 A1, WO9630057 A1, WO03067848 A1, WO02067848 A2, US7294687 BB, US6613536 BA, US6407079 BA, US6228363 BA, US5997856 A, US5730969 A, US5646131 A, US5376645 A, US5134127 A, US5126249 A, US4656158 A, US2005008634 AA, US2004180059 AA, US2004127408 AA, US2002054872 AA, EP0495049 A1, |
| **Forward Citations:** | WO06027116, WO06027116, US8865868, US7858738, US2010160442, US2009169559, US2008287366, US2008176946, US2008119390, |

**Abstract:**
Source: US2004180059A The subject invention provides a pharmaceutical composition comprising an aqueous carrier; from 0.1 mg/ml to 20 mg/ml of the composition of a pharmaceutically acceptable salt of a peptide having the structural formula NH 2−Gly Tyr Tyr Trp Ser Trp Ile Arg Gln Pro Pro Gly Lys Gly Glu Glu Trp Ile Gly− COOH; and a substituted beta−cyclodextrin in an amount effective to dissolve the peptide in the aqueous carrier, wherein the composition has a pH between 4 and 9, a process for preparation, and a method of alleviating symptoms of systemic lupus erythematosus (SLE) in a human subject comprising administering to the human subject the pharmaceutical composition.



**8) Family number: 57409113** (US2014303140A) © PatBase

**Title:** NOVEL COMPOUNDS AND PHARMACEUTICAL COMPOSITIONS THEREOF FOR THE TREATMENT OF INFLAMMATORY DISORDERS

**Priority:** US20130781174P 20130314 US20140205885 20140312 US20140572870 20141217 WO2014EP54440 20140307 US20150977918 20151222

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| AR095280 AA | 20150930 | AR2014P100893 | 20140312 |
| AU2014231009 AA | 20140918 | AU20140231009 | 20140307 |
| CA2902103 AA | 20150821 | CA20142902103 | 20140307 |
| CN105143221 A | 20151209 | CN201480014005 | 20140307 |
| CO7570493 A2 | 20160408 | CO20150221135 | 20150917 |
| EP2970255 A1 | 20160120 | EP20140708291 | 20140307 |
| HK1219730 A1 | 20170413 | HK20160107731 | 20160704 |
| ID201701253 A | 20170224 | ID2015P0005462 | 20140307 |
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| IN07322DN2015 A | 20160108 | IN2015DN07322 | 20150819 |
| JP2016512208 T2 | 20160425 | JP20150562040T | 20140307 |
| KR20150128995 A | 20151118 | KR20157029122 | 20140307 |
| MX2015011077 A1 | 20151029 | MX20150011077 | 20140307 |
| PH2015502055 A | 20160118 | PH20150502055 | 20150911 |
| RU2015143430 A | 20170418 | RU20150143430 | 20140307 |
| SG11201507224R A | 20151029 | SG20151107224 | 20140307 |
| TW201444835 A | 20141201 | TW20140108497 | 20140311 |
| US2014303140 AA | 20141009 | US20140205885 | 20140312 |
| US2015111872 AA | 20150423 | US20140572870 | 20141217 |
| US2016244443 AA | 20160825 | US20150977918 | 20151222 |
| US8993590 BB | 20150331 | US20140205885 | 20140312 |
| US9249141 BB | 20160202 | US20140572870 | 20141217 |
| UY35437 A1 | 20141031 | UY20140035437 | 20140314 |
| WO14139882 A1 | 20140918 | WO2014EP54440 | 20140307 |

**Probable Assignee:** GALAPAGOS NV

**Assignee(s):**(std)**:** GALAPAGOS NV

**Assignee(s):** HECKMANN BERTRAND ; PEIXOTO CHRISTOPHE ; JONCOUR AGNES ; BOCK XAVIER ; BRYS REGINALD CHRISTOPHE XAVIER ; DESROY NICOLAS

**Inventor(s):**(std)**:** BERTRAND HECKMANN ; BOCK XAVIER ; BOCK XAVIER MARIE ; BRYS REGINALD CHRISTOPHE XAVIER ; CHRISTOPHE PEIXOTO ; DESROY NICOLAS ; HECKMANN BERTRAND ; JONCOUR AGNES ; JONCOUR AGNES MARIE ; JONCOUR AGNS ; NICOLAS DESROY ; PEIXOTO CHRISTOPHE ; AGNES JONCOUR ; XAVIER BOCK ; XAVIER BRYS REGINALD CHRISTOPHE

**Inventor(s):** XAVIER MARIE BOCK ; AGNES MARIE JONCOUR ; REGINALD CHRISTOPHE XAVIER BRYS

**Agent(s):** DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; NORTON ROSE FULBRIGHT CANADA LLP SENCRL SRL; MAURICIO PATINO BONNET; BAR GREGORY; ACHMAD FATCHY; HESLIN ROTHENBERG FARLEY AND MESITI PC

**Designated states:** AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG

SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

**International class (IPC 8–9):** A61K31/351 A61K31/357 A61K31/381 A61K31/382 A61K31/397 A61K31/4025 A61K31/41 A61K31/4178 A61K31/422 A61K31/4245 A61K31/425 A61K31/427 A61K31/433 A61K31/4353 A61K31/437 A61K31/444 A61K31/4523 A61K31/4545 A61K31/496 A61K31/506 A61K31/5377 A61K31/541 A61K45/06 A61P11/00 A61P11/06 A61P17/00 A61P19/02 A61P25/00 A61P25/04 A61P25/28 A61P29/00 A61P3/04 A61P3/10 A61P35/00 A61P35/02 A61P37/00 A61P37/02 A61P43/00 A61P9/00 A61P9/10 C07D C07D401/04 C07D417/14 C07D471/04 C07D487/04 C12N9/99 (Advanced/Invention); A61K A61P C07D (Subclass/Invention)

**CPC:** A61K31/496 A61K31/437 A61K31/5377 A61K31/541 A61K31/506 C07D471/04 A61K31/444 A61K31/4545 C07D417/14 A61K45/06

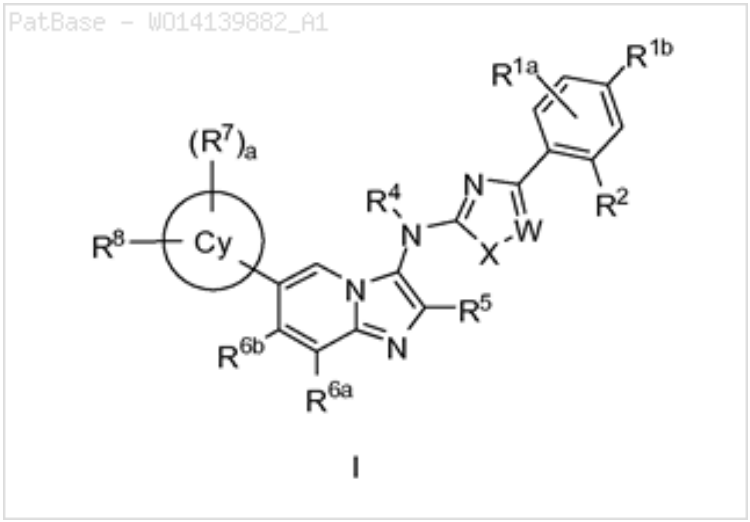
**US class:** 1/1 435/184 514/210.18 514/210.21 514/222.2 514/228.2 514/233.2 514/253.04 514/275 514/300 544/121 544/127 544/3 544/331 544/362 544/58.2 546/121

Classification Explorer

**Cited documents:** WO12166415 A1, WO11054922 A1, WO10063352 A1, WO08138842 A1, US8227603 BB, US2014303140 AA,

**Forward Citations:** WO16197009, US9249141,

**Abstract:**
Source: US2014303140A The present invention discloses compounds according to Formula I: Wherein R1a, R1b, R2, R4, R5, R6a, R6b, R7, R8, W, X, Cy, and the subscript a are as defined herein. The present invention relates to compounds inhibiting autotaxin (NPP2 or ENPP2), methods for their production, pharmaceutical compositions comprising the same, and methods of treatment using the same, for the prophylaxis and/or treatment of diseases involving fibrotic diseases, proliferative diseases, inflammatory diseases, autoimmune diseases, respiratory diseases, cardiovascular diseases, neurodegenerative diseases, dermatological disorders, and/or abnormal angiogenesis associated diseases by administering the compound of the invention.



I

0) DE3718387A1 – BEEHIVE HUMMELNISTKASTEN

**9) Family number: 4674519** (DE3718387A1) © PatBase

**Title:** Beehive

**Priority:** DE19873718387 19870602

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| DE3718387 A1 | 19871008 | DE19873718387 | 19870602 |
| DE3718387 C2 | 19890427 | DE19873718387 | 19870602 |

**Probable Assignee:** SCHWEGLER VOGELSCHUTZGERAETE G

**Assignee(s):**(std)**:** SCHWEGLER VOGELSCHUTZGERAETE G

**Assignee(s):** SCHWEGLER VOGELSCHUTZGERAETE GMBH ; SCHWEGLER VOGELSCHUTZGERAETE GMBH 7060 SCHORNDORF ; SCHWEGLER VOGELSCHUTZGERAETE GMBH 7060 SCHORNDORF DE

**Inventor(s):**(std)**:** PAPENFOTH AXEL

**Inventor(s):** PAPENFOTH AXEL 7060 SCHORNDORF DE

**International class (IPC 8–9):** A01K67/033 (Advanced/Invention); A01K67/00 (Core/Invention)

**International class (IPC 1–7):** A01K67/00

**CPC:** A01K67/033

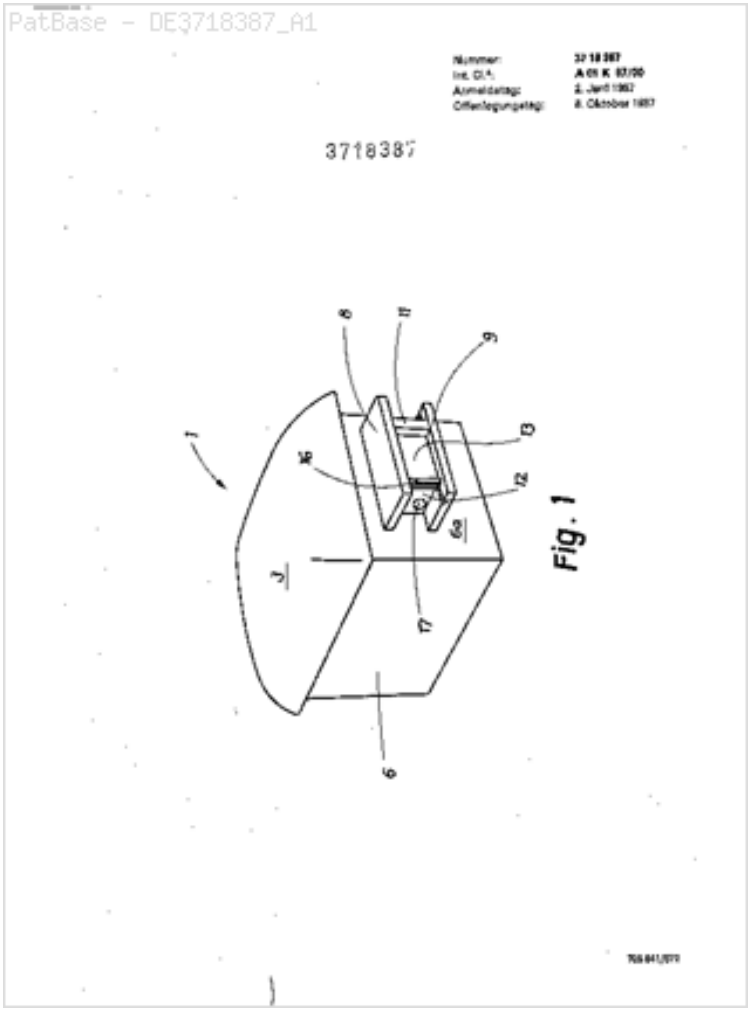
**European class:** A01K67/033

Classification Explorer

**Cited documents:** DE829078, DE7009731, DE608926,

**Forward Citations:** EP0800764, EP0598458, DE4042379, DE4036195, DE4018251, AU713985,

**Abstract:**
Source: DE3718387A1 A beehive has a box−shaped, upwardly open lower part on which a cover is placed. One of the side walls contains an entrance hole, via which the bees can pass into the interior of the hive and which is partly directly filled with natural filling material such as turf, mulch and the like. At least one of the side walls consists of a breathing, climatically compensating material in order to provide a humidity compensation which prevents the filling material from turning mouldy.



0) GB645270A – IMPROVEMENTS IN AND RELATING TO BEE HIVES

**10) Family number: 19578681** (GB645270A)

© PatBase

**Title:** Improvements in and relating to bee hives

**Priority:** GB19470026225 19470927

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| GB645270 A | 19501025 | GB19470026225 | 19470927 |

**Probable Assignee:** CHARLES ANSON SMITH

**Assignee(s):**(std)**:** CHARLES ANSON SMITH

**International class (IPC 8–9):** A01K47/00 (Advanced/Invention); A01K47/00 (Core/Invention)

**International class (IPC 1–7):** A01K47/00

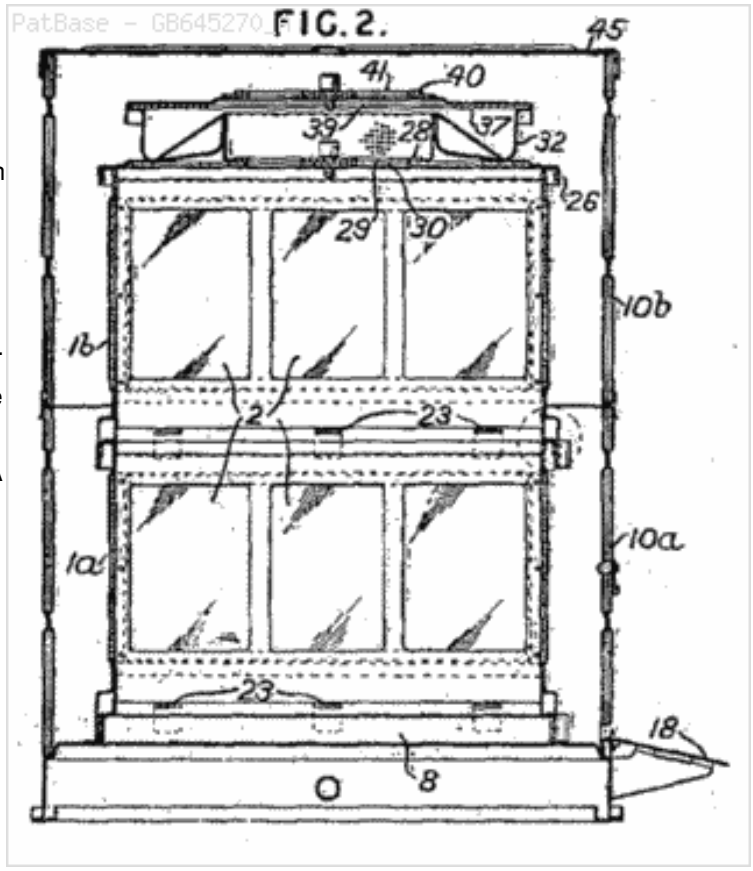
**CPC:** A01K47/00

**European class:** A01K47/00

Classification Explorer

**Forward Citations:** WO8603935,

**Abstract:**
Source: GB645270A 26225. [Class 5(ii)] A bee–hive comprises a number of superimposed chambers 1a, 1b having windows 2 and mounted on a stand 8 wherein each chamber has a slot (not shown) for the insertion of a manipulating plate which rests on supports 23. The top chamber is fitted with a lid 26 provided with a rotatable disc 28 which has bee slots 29 cooperating with bee slots 30 on the lid. On top of the lid 26 is an annular trough–like feeder 32 above which is a cover having windows 37 and bee slots 39 which cooperate with slots 41 on a rotatable plate 40. The hive is enclosed in an opaque sheath having walls of double thickness which may be provided with troughs for storing water. As shown, the sheath comprises two sections 10a, 10b and a transparent or opaque lid 45. A foldable alighting board 18 is provided and the hive may be electrically heated. The hive is made of sheet metal and the windows of a glassclear synthetic resin.



0) AU2015101097A – BEEHIVE ENCLOSURE

**11) Family number: 60402586** (AU2015101097A)

© PatBase

**Title:** Beehive enclosure

**Priority:** AU20150101097 20150813

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| AU2015101097 AD | 20150924 | AU20150101097 | 20150813 |

**Probable Assignee:** HIVE HAVEN PTY LTD

**Assignee(s):**(std)**:** HIVE HAVEN PTY LTD

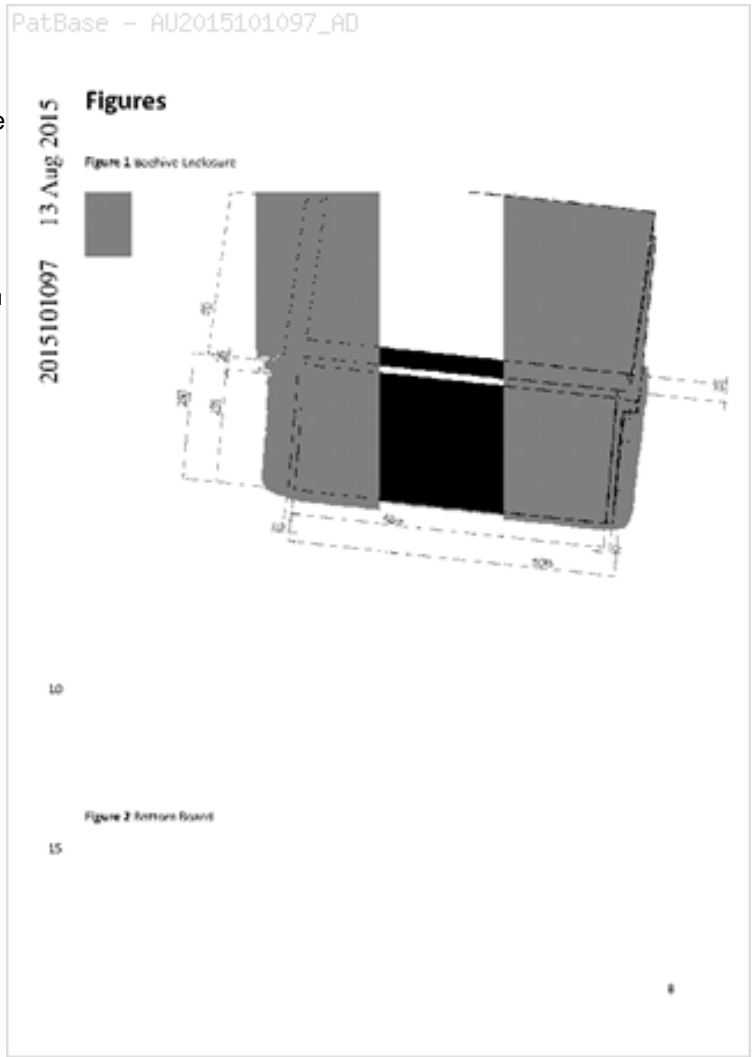
**Inventor(s):**(std)**:** ROSS ANN ; ROSS JEFFREY

**Agent(s):** HIVE HAVEN PTY LTD

**International class (IPC 8–9):** A01K47/06 (Advanced/Invention)

Classification Explorer

**Abstract:**
Source: AU2015101097A The bee hive has retained the Langstroth Hive enclosure size and design and has incorporated a small hive beetle trap and a Varroa mite deterrent into the design. The innovative material and design provides improved heating and cooling properties. The device enables the extraction of honey, propolis, cereum, wax and pollen to be removed from the bee enclosure. The material used is sourced from recycled and new plastic for example, but not limited to High Density Polyethylene (HDPE) which embodies the sustainability philosophy of recycling, HOPE is a valuable material that can be recycled to deliver a durable product requiring little or no maintenance and providing the beekeeper with a higher return on their time and investment. By adopting the Langstroth Hive dimensions, the bee enclosure is easily mixed and matched with wooden hives currently in use. A feature of the invention is a locking device which secures the beehive container and including the removable lid and the bottom board. A further feature of the invention is software to support and monitor the inventive beehive described above and bees to provide an integrated system which will enable the bee keeper to record the age, condition, rotation and efficiency of their hive enclosures and bees. Figure 3 Bee Hive enclosure with circular opening to allow bees to enter and leave the enclosure.



0) DE2040242A1 – SQUARE BEEHIVE FRAME – OF CLOSED CELL IMPACT–RE...

**12) Family number: 511501** (DE2040242A1) © PatBase

**Title:** SQUARE BEEHIVE FRAME – OF CLOSED CELL IMPACT–RESISTANT PLASTICS

**Priority:** DE19702040242 19700813

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| DE2040242 A1 | 19720217 | DE19702040242 | 19700813 |
| DE2040242 B2 | 19750410 | DE19702040242 | 19700813 |
| DE2040242 C3 | 19751127 | DE19702040242 | 19700813 |

**Probable Assignee:** HORN DIETER DIPL KFM

**Assignee(s):(std):** HORN DIETER DIPL KFM

**Assignee(s):** HORN DIETER DIPL KFM 7062 RUDERSBERG

**Inventor(s):(std):** HORN DIETER DIPL KFM

**Inventor(s):** HORN DIETER DIPL KFM 7062 RUDERSBERG

**International class (IPC 8–9):** A01K47/00 (Advanced/Invention); A01K47/00 (Core/Invention)

**International class (IPC 1–7):** A01K47/00

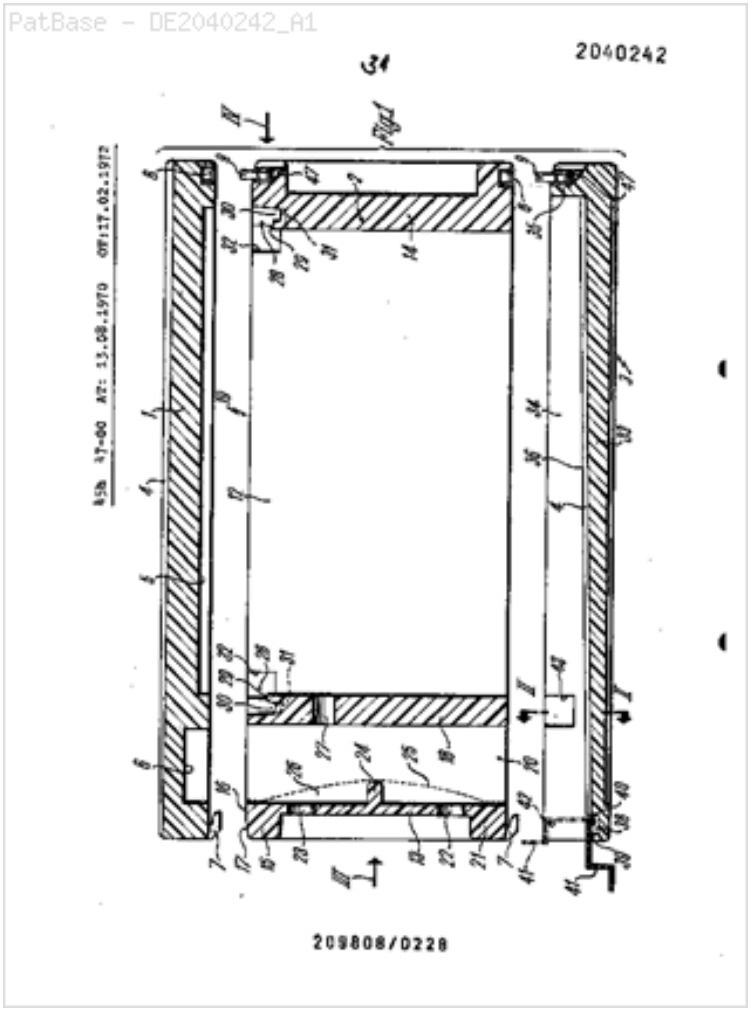
**CPC:** A01K47/00

**European class:** A01K47/00

Classification Explorer

**Forward Citations:** US3968531, FR2682260,

**Abstract:**
Magazine, floor and cover are of the hard resin, which has a smooth outer surface. Individual inner surfaces are roughened so that the bees' feet can grip sufficiently when they are perpendicular or upside down. Pref. the outer surfaces have a foamed–on hard polyurethane foam, of limited elasticity.



0) ES2261023A – PROCEDIMIENTO PARA LA CONSTRUCCION DE COLMENAS ...

**13) Family number: 33811315** (ES2261023A) © PatBase

**Title:** PROCEDIMIENTO PARA LA CONSTRUCCION DE COLMENAS POR INYECCION O PROYECCION DE ESPUMA DE POLIURETANO Process for the construction of hives per injection or POLYURETHANE FOAM PROJECTION (Machine translation)

**Priority:** ES20040001859 20040727

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| ES2261023 AA | 20061101 | ES20040001859 | 20040727 |
| ES2261023 BA | 20071216 | ES20040001859 | 20040727 |

**Probable Assignee:** PELAEZ MONTILLA JOSE ANTONIO

**Assignee(s):**(std)**:** PELAEZ MONTILLA JOSE ANTONIO

**Inventor(s):**(std)**:** PELAEZ MONTILLA JOSE ANTONIO

**International class** (IPC 8–9)**:** A01K47/00 (Advanced/Invention)

**CPC:** A01K47/00

**European class:** A01K47/00

Classification Explorer

**Cited documents:** ES314070, ES2178191, ES203649, ES1058049 U,

**Abstract:**
Source: ES2261023A Procedimiento para la construccion de colmenas por inyeccion o proyeccion de espuma de poliuretano. Consistente en construir moldes de madera o de metal que configuran la base, las paredes exteriores, las paredes interiores y la tapa de la colmena, constando cada molde de dos piezas. Una vez colocados los moldes se coloca encima de la caja resultante una tapa de inyeccion provista de dos orificios de inyeccion del poliuretano, rellenandose el espacio que queda entre las distintas piezas que configuran los moldes mediante bombas hidraulicas. Una vez retirados los moldes queda una colmena de una sola pieza totalmente de poliuretano. A la caja se le ensambla la tapa, tambien de polietileno, se le unen las asas y se le practican orificios de ventilacion.

**Machine translation:** Procedure for construction of hives per injection or projection of polyurethane foam. Build molds consisting of wood or metal forming the foundation, external walls, interior walls and lid of the hive, each consisting of two mold parts. Once the molds are positioned on top of the box placed resultant injection lid having two injection holes polyurethane, filling the space between the various parts that make up the molds by hydraulic pumps. After removing the molds is a beehive in one piece entirely of polyurethane. The box lid is assembled, also polyethylene, is joined by the handles and is practiced vents.

0) DE102012019651A1 – BIENENWOHNUNG

**14) Family number: 53506669** (DE102012019651A1) © PatBase

**Title:** BIENENWOHNUNG

**Priority:** CH20110001669 20111012

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| CH705617 A2 | 20130415 | CH20110001669 | 20111012 |
| DE102012019651 A1 | 20130418 | DE201210019651 | 20121008 |

**Probable Assignee:** UEBERSAX ROLAND

**Assignee(s):**(std)**:** UEBERSAX ROLAND

**Assignee(s):** ROLAND UEBERSAX ; UEBERSAX

**Inventor(s):**(std)**:** UEBERSAX ROLAND

**Inventor(s):** ROLAND UEBERSAX

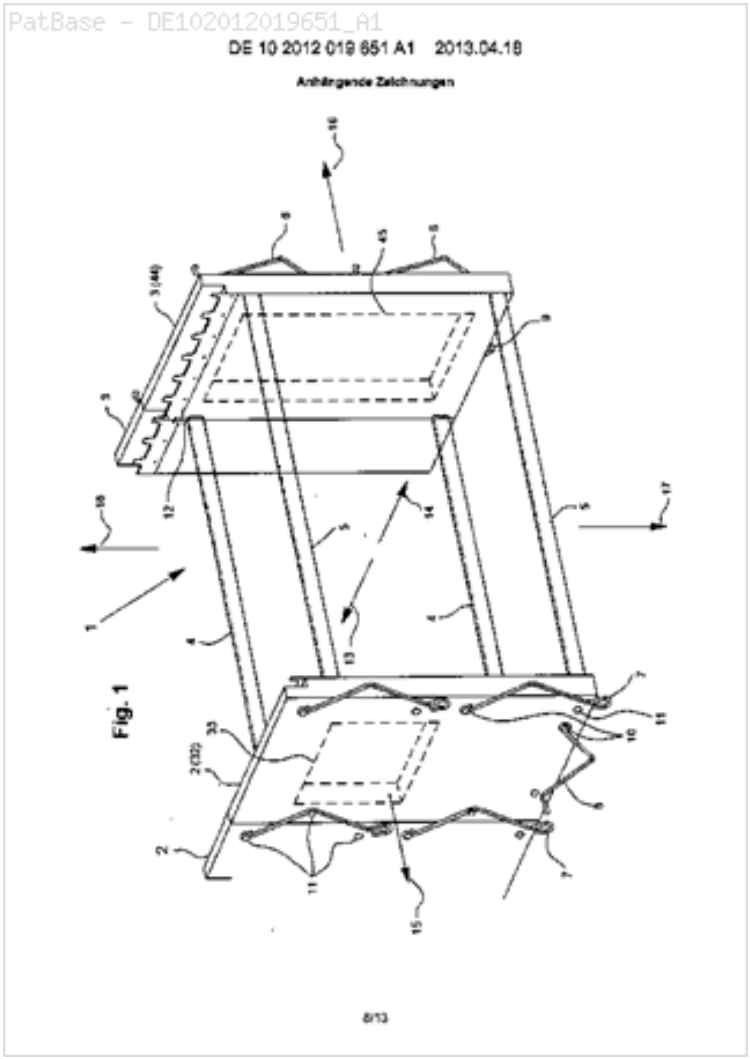
**International class** (IPC 8–9)**:** A01K47/00 (Advanced/Invention); A01K49/00 (Advanced/Non–invention)

**CPC:** A01K47/00

Classification Explorer

**Forward Citations:** AT14812,

**Abstract:**
Source: DE102012019651A1 Eine Bienenwohnung (1), deren Waende–Stirn– (2, 32), Rueck– (3, 44) und Seitenwaende (23, 24) bewegliche Module sind, so werden diese nach Bedarf zu– und abgebaut was in allen sechs Erweiterungsrichtungen (13, 14, 15, 16, 17 und 18) erfolgen kann, wobei fuer die Erweiterungsrichtungen 15 und 16 die Stirn– (2) und Rueckwand (3) durch eine modifizierte Stirn– (32) und Rueckwand (44) mit Durchbruechen (33, 45) ausgetauscht werden und diese wie alle diese Waende mit einer Schnellfixation durch ein sich verspannen durch die Federbuegel (6, 7) mit den Schrauben (10, 11), die in den Waenden verankert sind, und so auch die Waende gegeneinander verspannt und fixiert, ausgefuehrt ist, wobei alle Waende als Einzelmodule losgeloest raumsparend gestapelt werden koennen und in gleicher Weise die Flugloecher mit ihren Bodenbrettern modular sind und somit wahlweise an die Stirn– oder Seitenwaende gebaut werden koennen.



0) AU2007200234A – IMPROVEMENT IN PRODUCTION OF HONEY COMB

**15) Family number: 36021546** (AU2007200234A) © PatBase

| | |
|---|---|
| **Title:** | Improvement in production of honey comb |
| **Priority:** | AU20060900409 20060127 AU20070200234 20070119 |

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| AU2007200234 AA | 20070816 | AU20070200234 | 20070119 |

| | |
|---|---|
| **Probable Assignee:** | HONEY SHACK PTY LTD |
| **Assignee(s):**(std) | HONEY SHACK PTY LTD |
| **Assignee(s):** | THE HONEY SHACK PTY LTD |
| **Inventor(s):**(std) | SMITH ERIC WILLIAM |
| **Inventor(s):** | ERIC WILLIAM SMITH |
| **Agent(s):** | CALLINANS; FISHER ADAMS KELLY CALLINANS |
| **International class** (IPC 8–9)**:** | A01K47/00 A01K47/02 A01K47/06 (Advanced/Invention); A01K47/00 (Core/Invention) |

Classification Explorer

**Abstract:**
Source: AU2007200234A –13– ABSTRACT
An apparatus for facilitating the growing and production of comb honey including a frame to receive and releasably hold side–by–side in planar arrays a first plurality of cassette bases adapted to promote the production of comb honey by bees, said frame being suspended in a bee hive box in place of a conventional frame and including a web having two opposed planar surfaces, at least one of said planar surfaces being provided with means to releasably retain said cassette bases, each of said cassette bases comprising a box–like container with a bottom wall and opposed pairs of side walls defining a cavity within which comb honey can be deposited, said cassette bases being transparent and the inner side of the bottom wall of each cassette base being embossed with hexagonal patterning sized to promote the production of comb and comb honey and each of said cassette bases being adapted to be individually covered with a cassette lid and to be removed from said frame with comb honey formed within being retained intact.
19/01/07jb15482 cap, 13 2/7 26

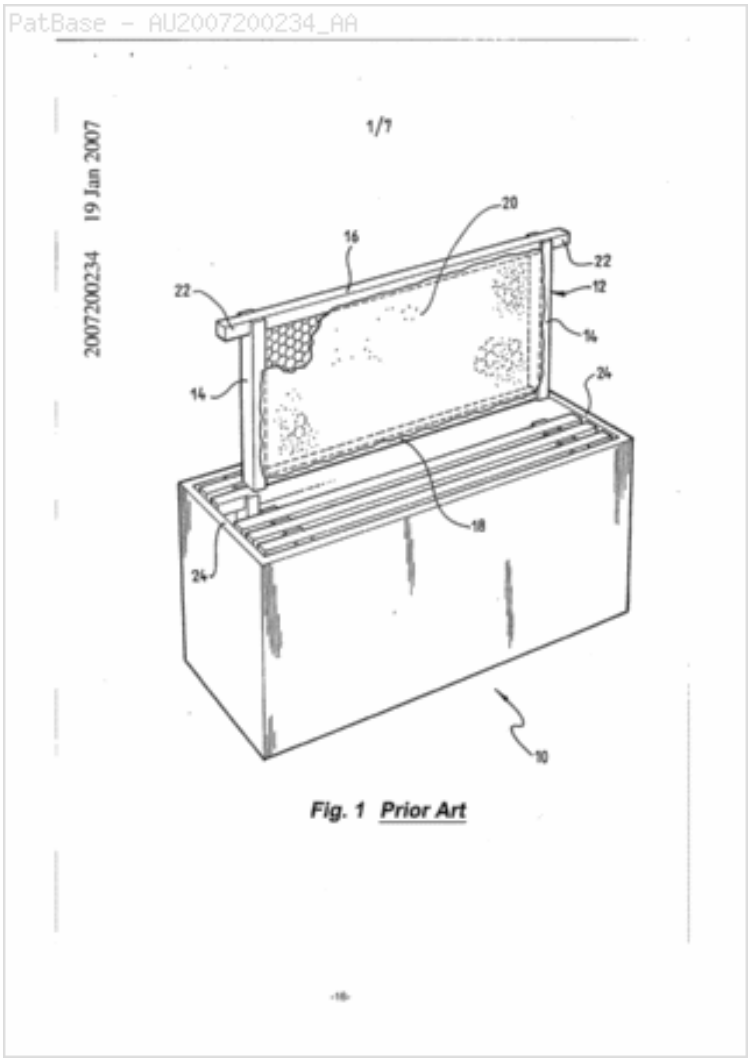



*Fig. 1 Prior Art*

0) GB586654A – AN IMPROVED BEEHIVE

**16) Family number: 19896917** (GB586654A) © PatBase

**Title:** An improved beehive

**Priority:** GB19440019839 19441013

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| GB586654 A | 19470326 | GB19440019839 | 19441013 |

**Probable Assignee:** DENISE KATE WREN

**Assignee(s):**(std)**:** DENISE KATE WREN

**International class (IPC 8–9):** A01K47/00 (Advanced/Invention); A01K47/00 (Core/Invention)

**International class (IPC 1–7):** A01K47/00

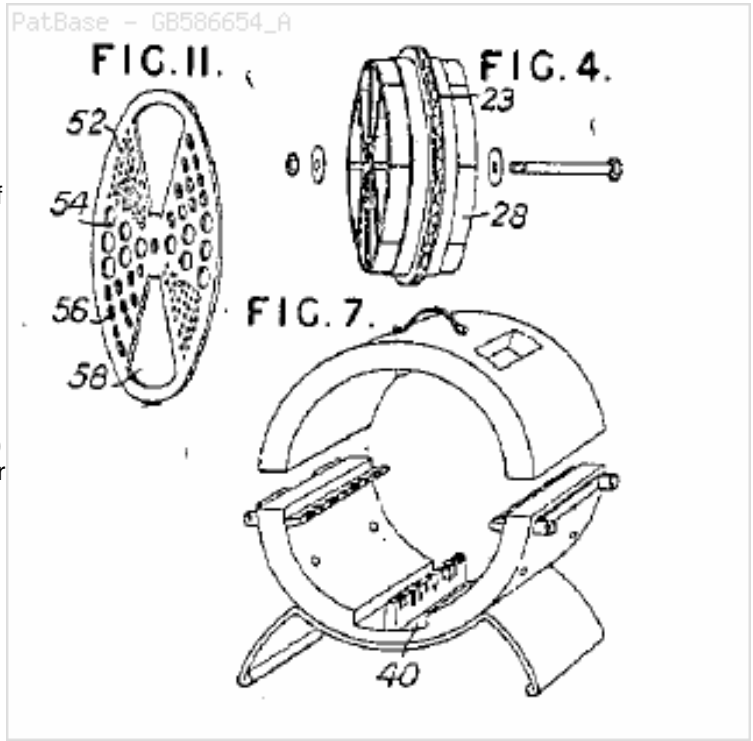
**CPC:** A01K47/00

**European class:** A01K47/00

Classification Explorer

**Forward Citations:** WO8603935, WO15164319, WO14161946, WO03007704, WO0072668, FR2598282, EP1414292, DE102013005587,

**Abstract:**
Source: GB586654A 19839. [Class 5 (ii)] A beehive comprises one or more chambers placed end to end, each symmetrical and reversible about a central plane, an apertured screen being placed at each end of each chamber. Frames consist of flanged rings with a wax foundation 23 clamped between them. If a synthetic resin is used the rings and foundation may be formed as an integer. Sector–shaped section boxes 28 may be fitted within each flange, each box being formed from a strip of thin wood or synthetic material. An axial nut and bolt with washers may hold the assembly together. Such frames are mounted within chambers, Fig. 7, the upper half of which is removable from or hinged to the lower half. Recessed. longitudinal racks 40 are mounted in the base and sides of the lower part of the chamber. A resilient strip 45 in the upper part prevents movement. To each end of the chamber is fixed a plate having two sectorshaped openings, and pivoted on each end–plate is a disc, Fig. 11, having sector–shaped openings 58 and apertures 52, 54, 56 of differing size. Several chambers arranged in series to form a hive are closed at each end by plates containing only flight and ventilation holes. The chambers may be of rectangular section, and instead of rotary end plates, interchangeable plates may be provided.



0) RU2038771C – ISOLATION CHAMBER FOR INTRODUCTION OF QUEEN BEE...

**17) Family number: 10481579** (RU2038771C) © PatBase

**Title:** ISOLATION CHAMBER FOR INTRODUCTION OF QUEEN BEES

**Priority:** RU19920001546 19921019

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| RU2038771 C1 | 19950709 | RU19920001546 | 19921019 |
| RU92001546 A | 19970310 | RU19920001546 | 19921019 |

**Probable Assignee:** GOSTINICHNO ARENDATORSKIJ KOOP

**Assignee(s):**(std)**:** GOSTINICHNO ARENDATORSKIJ KOOP

**Assignee(s):** GOSTINICHNO ARENDATORSKIJ KOOPERATIV KROV

**Inventor(s):**(std)**:** EMANDYKOV ALEKSANDR M ; SARATOV VLADIMIR A

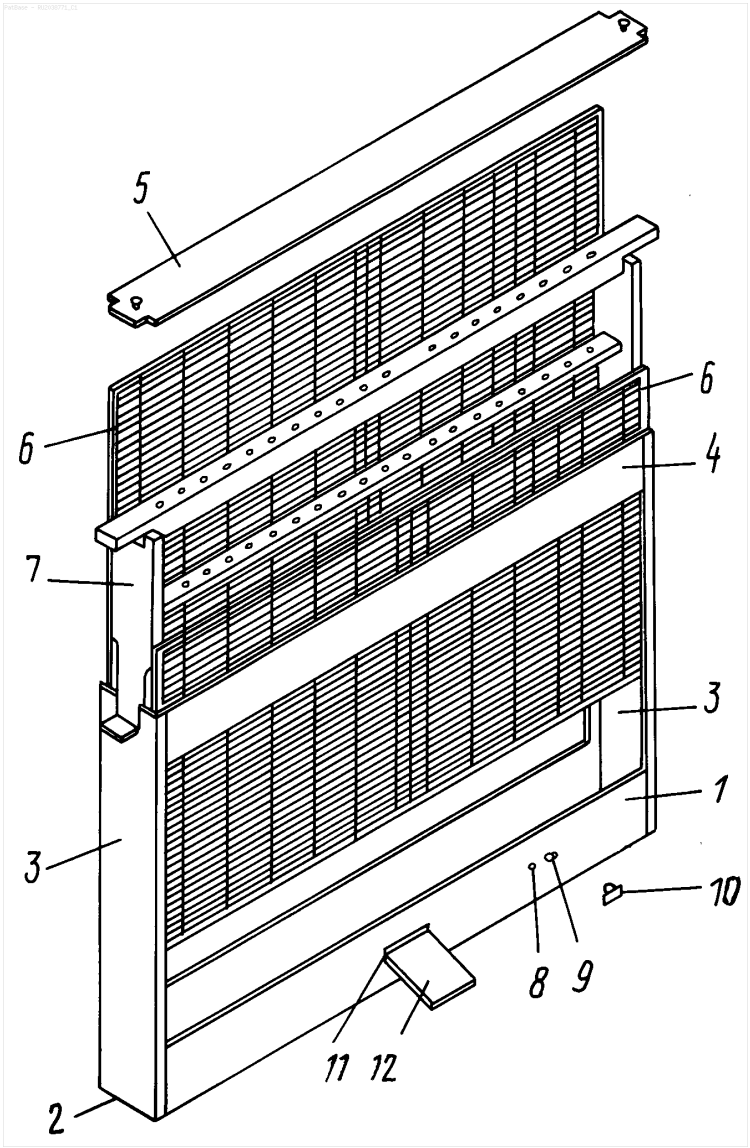
**International class** (IPC 8–9)**:** A01K49/00 (Advanced/Invention); A01K49/00 (Core/Invention)

**International class** (IPC 1–7)**:** A01K49/00

Classification Explorer

**Abstract:**
Source: RU2038771C

FIELD: apiculture. SUBSTANCE: isolation chamber has a bottom base in the form of U–shaped box connected to which are U–shaped end walls interconnected in the upper part by parallel plates. One of the box side walls has a hole of 2.8 3.0 mm dia for connecting a cage with queen bee and a hole of 8 15 mm dia for introducing the queen bee, closed with a plug. Said holes are spaced at 11 25 mm from each other. One of the side walls of the box is provided with an entrance slot with an opening 7 9 mm high and 50 70 mm long fitted with a replaceable entrance platform and a cover while the end part of the box has an entrance slot 10 30 mm long. The side walls of the isolation chamber have the form of replaceable plates with holes. The relation of the total area $S_2$ of holes to the area $S_1$ of the side walls is 0,05 ? $[(S_2 - S_1)/S_2]$? 1. EFFECT: improved design. 1 dwg



0) CN202697471U – COMB HONEY BOX

**18) Family number: 52920630** (CN202697471U) © PatBase

**Title:** COMB HONEY BOX

**Priority:** CN201220443698U 20120903

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| CN202697471 U | 20130130 | CN201220443698U | 20120903 |

**Probable Assignee:** QIU RUMIN

**Assignee(s):**(std)**:** QIU RUMIN

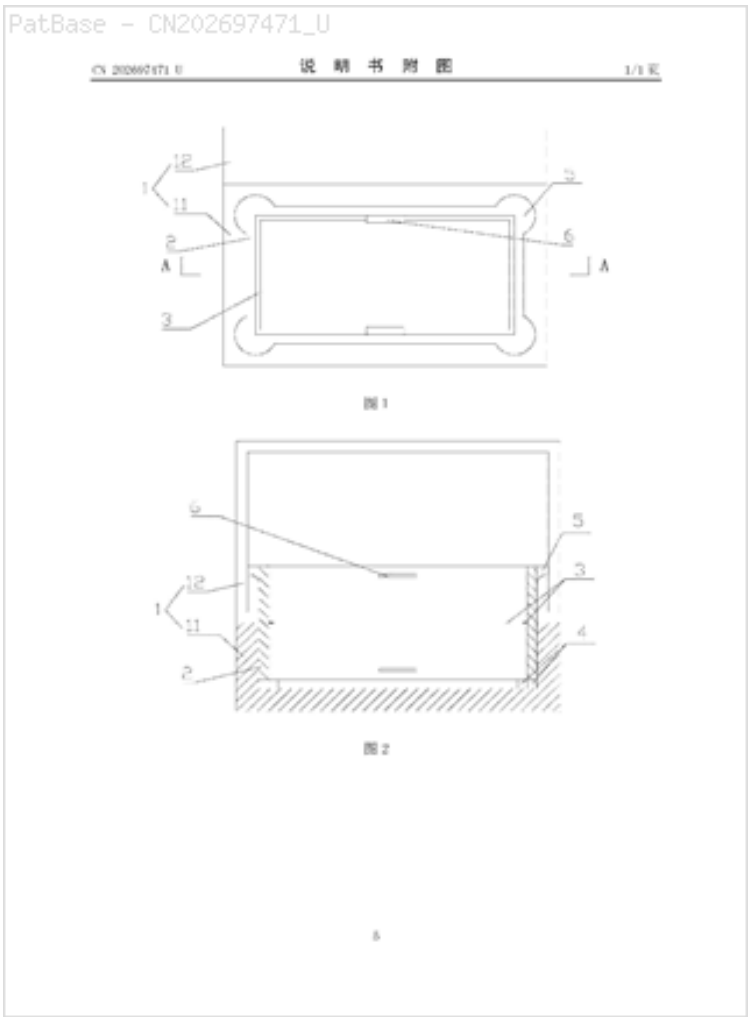
**Inventor(s):**(std)**:** QIU RUMIN

**International class** (IPC 8–9)**:** A01K47/04 (Advanced/Invention)

Classification Explorer

**Forward Citations:** CN104904622, CN104904622, CN102860268,

**Abstract:**
Source: CN202697471U (11), the inner wall of the utility model discloses a nest of honey box, including the lid from the box body (12) constituting the sleeve (1) and place it in the honeycomb pack frame (2), the honeycomb frame along the circumferential direction is provided to facilitate the rolling beeswax nest foundation of the flange (3), the lower end surface of the honeycomb frame with a downwardly projecting support feet (4) on the outer edge of the end face of the honeycomb frame with a level projecting support base (5), the support base and the corresponding support leg, with the upper and lower sides of the stopper ribs (6), the limit distribution of ridges on the convex side of the inner wall of the honeycomb frame. The utility model is a nest of honey hive box does not produce waste products utilization is high; no cut honeycomb outer packaging does not need cleaning, low labor intensity; from two directions at the same hive nest box, high production efficiency.



**19) Family number: 57563450** (WO14161058A1) © PatBase

**Title:** STRUCTURAL ARRANGEMENT IN CONSTANT EVAPORATIVE AIR–CONDITIONER

**Priority:** BR20132008109U 20130404

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| BR202013008109 U2 | 20141007 | BR20132008109U | 20130404 |
| PE19132015 Z | 20160114 | PE20150002086U | 20140404 |
| WO14161058 A1 | 20141009 | WO2014BR00114 | 20140404 |

**Probable Assignee:** REICHERT JOAO ANTONIO

**Assignee(s):**(std)**:** JOAO ANTONIO REICHERT ; REICHERT JO O ANTONIO ; REICHERT JOAO ANTONIO

**Inventor(s):**(std)**:** REICHERT JO O ANTONIO ; REICHERT JOAO ANTONIO

**Inventor(s):** JOAO ANTONIO REICHERT

**Agent(s):** CAMPOS STOCK LUIZ FERNANDO

**Designated states:** AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

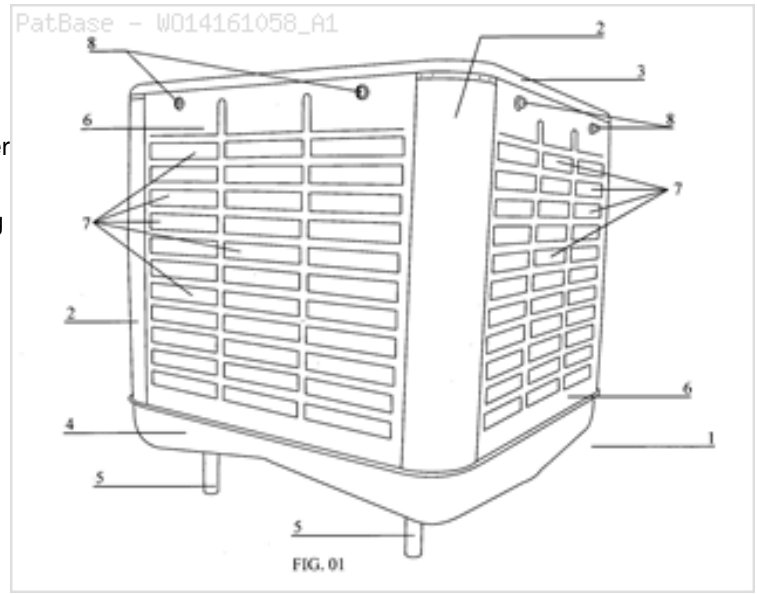
**International class (IPC 8–9):** F24F6/00 F24F6/02 F24F6/06 F24F7/06 F28D5/00 (Advanced/Invention)

**CPC:** F28D5/00 F24F5/0035 F24F2011/0006 F28B1/06

Classification Explorer

**Cited documents:** WO10062003 A1, US5606868 A, US4951480 A, US4672820 A, US4615182 A, US2013186611 AA, BRMU9001461 U2,

**Abstract:**
A structural arrangement in a constant evaporative air–conditioner, as described in the description and depicted in the attached drawings, is characterised by a new structural arrangement for an evaporative air–conditioner with a constant air flow, this device being designed to allow greater thermal adaptation of industrial or domestic environments, cooling or heating the same with low energy consumption and noise level. The structure of the equipment was improved in comparison with the previous utility models from the same applicant, in order to make the equipment easier to manufacture and to improve its operation and performance.



0) DE558403A – BIENENSTOCK BEEHIVE (MACHINE TRANSLATION)

**20) Family number: 20280210** (DE558403A)

© PatBase

**Title:** BIENENSTOCK BEEHIVE (Machine translation)

**Priority:** DE1931S098257 19310426

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| DE558403 A | 19320906 | DE1931S098257D | 19310426 |

**Probable Assignee:** OLIVER SMITH

**Assignee(s):**(std)**:** OLIVER SMITH

**International class (IPC 8–9):** A01K47/00 (Advanced/Invention); A01K47/00 (Core/Invention)

**International class (IPC 1–7):** A01K47/00 A01K47/06

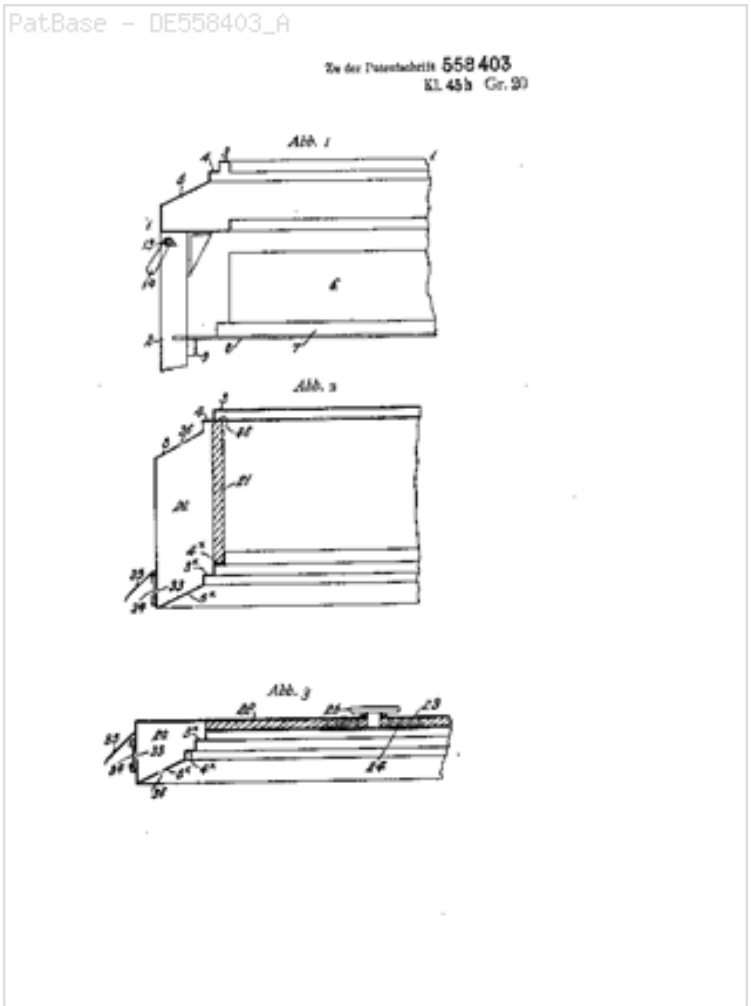
**CPC:** A01K47/00

**European class:** A01K47/00

Classification Explorer

**Abstract:**
Source: DE558403A (Claim 1) 1. PATENTANSPRUECHE: z. Bienenstock, bestehend aus doppel wandigen, mit Ansatzflaechen aufeinander setzbaren Einzelteilen, dadurch gekenn– zeichnet, dass die Hohlraeume der Einzel teile, naemlich des Bodenteiles, der rahmen foermigen Isastenteile und des Deckelteiles, durch Luftkanaele miteinander verbunden sind, waehrend in den Aussenwaenden der Einzelteile regelbare Lueftungsoffnungen sich befinden.

**Machine translation:** (claim 1) 1 Claims: for beehive, consisting of double–walled, with Ansatzflaechen successive settable items, thereby marked, that the cavities of the individual parts, namely the base part, the frame–shaped Isastenteile and the lid part, by Luftkanaele are connected together, while in the external walls of the items are controlled Lueftungsoffnungen.



0) DE9202698U1 –

**21) Family number: 17694488** (DE9202698U1) © PatBase

**Priority:** DE19910004903U 19910422 DE19920002698U 19920229

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| DE9202698 U1 | 19920617 | DE19920002698U | 19920229 |

**Probable Assignee:** NOCK FRANZ 7740 TRIBERG DE

**Assignee(s):** NOCK FRANZ 7740 TRIBERG DE

**International class (IPC 8–9):** A01K47/00 A01K47/02 (Advanced/Invention); A01K47/00 (Core/Invention)

**International class (IPC 1–7):** A01K47/02 A01K47/06

**CPC:** A01K47/00 A01K47/02

**European class:** A01K47/00 A01K47/02

Classification Explorer

**Abstract:**
Source: DE9202698U1 (Claim 1)
Gebrauchsmuster–Anmeldung
Bienenwohnungsbau
Verbundmagazin/Gebirgsmagazin
Schutzansprueche 1. Beim
Bienenwohnungsbau handelt es sich um
Magazine, wie sie in den letzten 25 Jahren
Eingang in der deutschen Bienenhaltung
gefunden haben.

**Machine translation:** (Claim 1) Utility Model
Application bees housing association
magazine / rock magazine Schutzansprueche
first When bees are housing magazines, as
they have found in the last 25 years in receipt
of the German beekeeping.

0) GB2442192A – HOLDER FOR MUG ON CHAIR ARM

**22) Family number: 33984283** (GB2442192A) © PatBase

**Title:** HOLDER FOR MUG ON CHAIR ARM

**Priority:** GB20060019137 20060928

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| GB200619137 A0 | 20061108 | GB20060019137 | 20060928 |
| GB2442192 A1 | 20080402 | GB20060019137 | 20060928 |
| GB2442192 B2 | 20080827 | GB20060019137 | 20060928 |

**Probable Assignee:** GILBERT DOREEN

**Assignee(s):**(std)**:** GILBERT DOREEN

**Assignee(s):** DOREEN GILBERT

**Inventor(s):**(std)**:** GILBERT DOREEN

**Inventor(s):** DOREEN GILBERT

**International class** (IPC 8–9)**:** A47C7/70 A47G23/03 (Advanced/Invention); A47C7/62 A47G23/00 (Core/Invention)

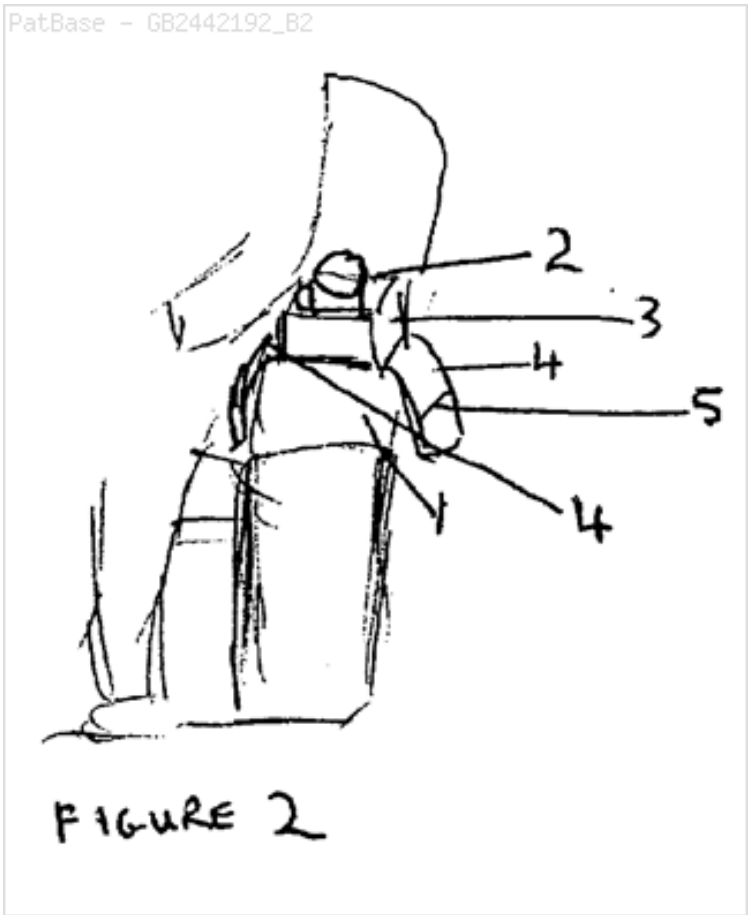
**CPC:** A47G23/0225 A47C7/70 A47G23/03

**European class:** A47C7/70 A47G23/02A2B A47G23/03

Classification Explorer

**Cited documents:** GB342504 A, GB262210 A, GB220890 A,

**Abstract:**
Source: GB2442192A A multi–purpose mug holder includes a coaster tray 3 with a raised outer wall to hold a drinks vessel 2. The tray 3 fits centrally on a weighted band 4 which hangs over each side of the arm 1 of a sofa or chair leaving the mug holder 3 sitting on top of the arm 1 in a stable and convenient position. Pockets 5 on each end of the band 4 can hold various personal items such as spectacles, lipsticks, pens, notepads, tablets, sweets and tissues as required. The inside base of coaster tray 3 and the underside of band 4 can be slip resistant to provide more stability. The tray may optionally have a lid (7) and a divider (6).



- **search:** SS4 FT=bee* and hive* and (box or container) and foldable and wall* (Results 6)
- List: SS4 1–50 (FT=bee* and hive* and (box or container) and foldable and wall*) (Results 6)

0) US2008119110A – BEEHIVE LID

**1) Family number: 33211004** (US2008119110A) © PatBase

**Title:** BEEHIVE LID

**Priority:** EP20060710188 20060208 GR20050010057 20050209 GR20050100057 20050209 WO2006GR00006 20060208 WO2006GR00006 20070907

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| AP200704091 A0 | 20070831 | AP20070004091 | 20060208 |
| AT414421 E | 20081215 | AT20060710188T | 20060208 |
| AU2006212044 AA | 20060817 | AU20060212044 | 20060208 |
| AU2006212044 BB | 20101104 | AU20060212044 | 20060208 |
| BRPI0608530 A2 | 20100119 | BR2006PI08530 | 20060208 |
| BRPI0608530 B1 | 20141111 | BR2006PI08530 | 20060208 |
| CA2595094 AA | 20070717 | CA20062595094 | 20060208 |
| CA2595094 C | 20130820 | CA20062595094 | 20060208 |
| CN101115386 A | 20080130 | CN200680004199 | 20060208 |
| CN101115386 B | 20110601 | CN200680004199 | 20060208 |
| CY1109047 T1 | 20140702 | CY20091100170T | 20090218 |
| DE602006003729 D1 | 20090102 | DE200660003729T | 20060208 |
| DK1848267 T3 | 20090316 | DK20060710188T | 20060208 |
| EG24778 A | 20100830 | EG20070000784T | 20070729 |
| EP1848267 A2 | 20071031 | EP20060710188 | 20060208 |
| EP1848267 B1 | 20081119 | EP20060710188 | 20060208 |
| ES2317506 T3 | 20090416 | ES20060710188T | 20060208 |
| GR1005104 B | 20060113 | GR20050100057 | 20050209 |
| GR1005104 B1 | 20060113 | GR20050100057 | 20050209 |
| HR20090088 T3 | 20090331 | HR20090000088 | 20090212 |
| JP2008529488 T2 | 20080807 | JP20070553717T | 20060208 |
| JP4991570 B2 | 20120801 | JP20070553717T | 20060208 |
| KR100915113 B1 | 20091008 | KR20077020523 | 20060208 |
| KR20070108539 A | 20071112 | KR20077020523 | 20070907 |
| MX2007009692 A1 | 20070913 | MX20070009692 | 20060208 |
| NZ556623 A | 20110225 | NZ20060556623 | 20060208 |
| PT1848267 T | 20090220 | PT20060710188T | 20060208 |
| RS50765 B | 20100831 | RS20090000077 | 20060208 |
| RU2007128034 A | 20090320 | RU20070128034 | 20060208 |
| RU2382552 C2 | 20100227 | RU20070128034 | 20060208 |
| SI1848267 T1 | 20090430 | SI20060030206T | 20060208 |
| US2008119110 AA | 20080522 | US20060814192 | 20060208 |
| US7686672 BB | 20100330 | US20060814192 | 20060208 |
| WO06085124 A2 | 20060817 | WO2006GR00006 | 20060208 |
| WO06085124 A3 | 20060928 | WO2006GR00006 | 20060208 |

**Probable Assignee:** LEXGLOBE LLP

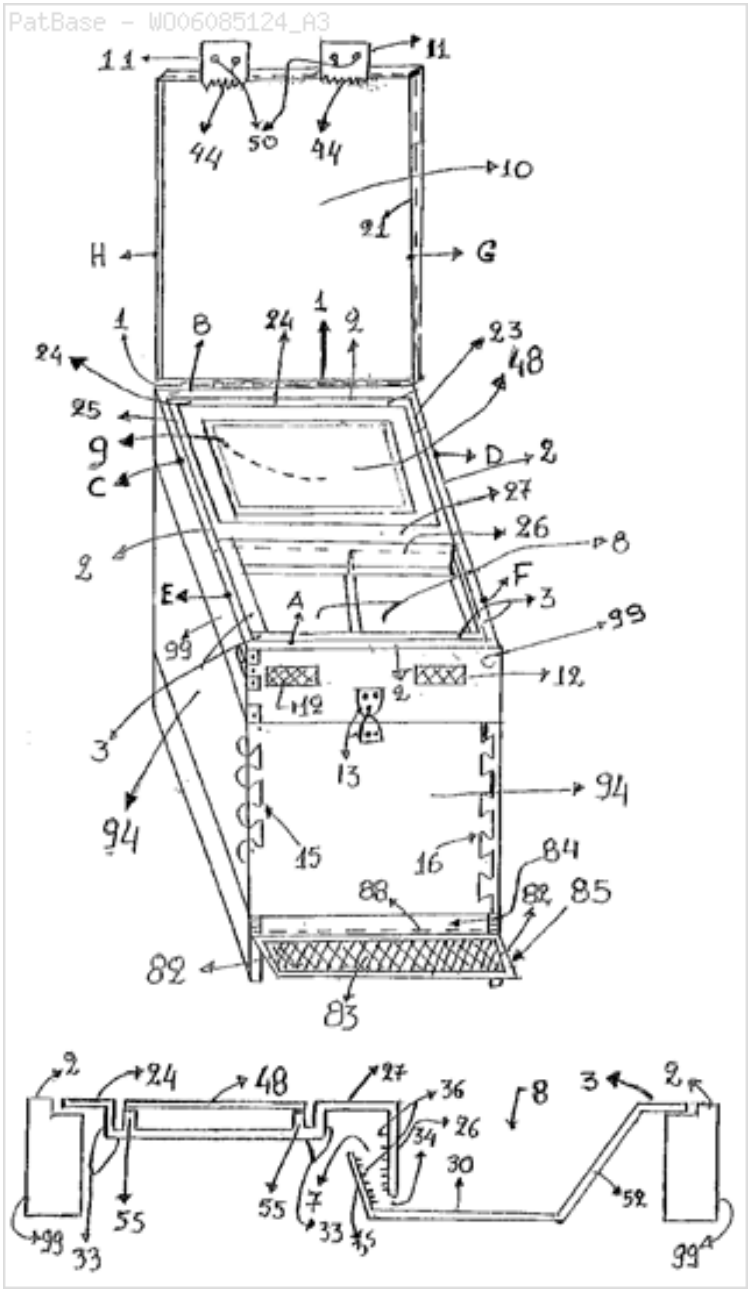
**Assignee(s):(std):** IOANNIS KATSAMPIS ; KATSAMPIS IOANNIS ; LEXGLOBE LLP ; NEUROSEARCH AS ; KATSAMPIS LOANNIS

**Assignee(s):** NEURO SEARCH A AND S ; NEURO SEARCH A S ; KATSAMPIS JANIS ; KATSABIS IOANNIS ; KATSAMPIS

**Inventor(s):(std):** IOANNIS KATSAMPIS ; KATSAMPIS IOANNIS

| | |
|---|---|
| **Inventor(s):** | KATSAMPIS JANIS ; KATSABIS IOANNIS ; KATSAMPIS |
| **Agent(s):** | ACACIA LAW; BORDEN LADNER GERVAIS LLP; DAVID A GUERRA INT PATENT GROUP LLC; ROYLANCE ABRAMS BERDO AND GOODMAN LLP |
| **Designated states:** | AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LC LI LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MW MX MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW |
| **International class (IPC 8–9):** | A01K47/00 A01K47/06 A01K53/00 (Advanced/Invention); A01K47/00 A01K47/06 (Advanced/Non–invention); A01K47/00 A01K53/00 (Core/Invention) |
| **CPC:** | A01K53/00 A01K47/00 A01K47/06 |
| **European class:** | A01K47/00 A01K53/00 |
| **US class:** | 449/15 449/25 449/3 449/6 |
| Classification Explorer | |
| **Cited documents:** | WO04021773 A1, US768370 A, US4736479 A, US4546509 A, US4402099 A, US4199832 A, US3200419 A, US2525251 A, US2340219 A, US2300772 A, US1911466 A, US1607659 A, US129464 A, US129464, JP2002159240 A2, JP2002159240, JP2002125506 A2, JP2002125506, JP11016075 Y1, JP11016075 Y, GR20020100010 A, GR20020100010, FR941288 A, FR2688381 A1, FR2688381, FR0941288, CH53844, CH538244 A, CH538244, |
| **Forward Citations:** | WO15079274, WO09004550, USD641935, USD634483, USD634482, USD629163, USD617958, US9526233, US9320264, US8764512, US8485859, US2015359204, US2012295514, US2010203802, KR101679649, JP5748622, JP2013059278, DE202012007392, CN105145411, CN103348931, |

**Abstract:**
Source: US2008119110A The lid of the beehive has a split open top (10) held by a mechanism to the one side of the body (99) of the lid. By opening the top (10) of the lid a surface is revealed which has containers (8) on the one side and an easily open cover (48) on the other, which enables immediate access into the internal of the hive. On the top (10) of the lid there are shutters (11) that open and close the air intake holes (12). The hive has a folding take off board (85) on its bottom reducing space during transportation. It uses dovetail (15,16) joints to withhold the sidewalls (94). This makes it very durable.



0) US2007170085A – CONTAINER AND SET AND METHOD FOR FORMING THE SA...

**2) Family number: 32512186** (US2007170085A) © PatBase

**Title:** CONTAINER AND SET AND METHOD FOR FORMING THE SAME

**Priority:** NL20031023335 20030502 WO2004NL00292 20040503

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| AU2004234311 AA | 20041111 | AU20040234311 | 20040503 |
| BRPI0409967 A | 20060425 | BR2004PI09967 | 20040503 |
| CA2524355 AA | 20051101 | CA20042524355 | 20040503 |
| CN1805879 A | 20060719 | CN200480016633 | 20040503 |
| EP1631498 A1 | 20060308 | EP20040730936 | 20040503 |
| IL171719 A0 | 20060312 | IL20040171719 | 20040503 |
| IN05144DN2005 A | 20071207 | IN2005DN05144 | 20051109 |
| IN233206 B | 20090327 | IN2005DN05144 | 20051109 |
| JP2006525201 T2 | 20061109 | JP20060507878T | 20040503 |
| KR20060027792 A | 20060328 | KR20057020842 | 20051102 |
| MXPA05011780 A1 | 20060330 | MX2005PA11780 | 20040503 |
| NL1023335 C2 | 20041103 | NL20031023335 | 20030502 |
| NO20055700 A | 20060125 | NO20050005700 | 20051202 |
| NO20055700 A0 | 20051202 | NO20050005700 | 20051202 |
| NZ543919 A | 20080926 | NZ20040543919 | 20040503 |
| RU2005137690 A | 20060610 | RU20050137690 | 20040503 |
| US2007170085 AA | 20070726 | US20040555129 | 20040503 |
| WO04096653 A1 | 20041111 | WO2004NL00292 | 20040503 |
| ZA200509048 A | 20060927 | ZA20050009048 | 20051109 |

**Probable Assignee:** I PAC PATENTS BV

**Assignee(s):**(std): FOUNTAIN TECHNOLOGIES B V ; FOUNTAIN TECHNOLOGIES BV ; HOOGLAND HENDRICUS A ; HOOGLAND HENDRICUS ANTONIUS ; I PAC PATENTS BV ; FOUNTAIN TECH BV ; I PAC TECHNOLOGIES N V ; I PAC PATENTS B V

**Assignee(s):** I PAC TECHNOLOGIES NV

**Inventor(s):**(std): HOOGLAND HENDRICUS A ; HOOGLAND HENDRICUS ANTONIUS ; HENDRICUS ANTONIUS HOOGLAND ; ANTONIUS HOOGLAND HENDRICUS

**Inventor(s):** HOOGLAND HENDRICUS

**Agent(s):** FISHER ADAMS KELLY; FISHER ADAMS KELLY PTY LTD; FISHER ADAMS KELLY CALLINANS; BORDEN LADNER GERVAIS LLP; HOFFMANN AND BARON LLP

**Designated states:** AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

**International class (IPC 8–9):** B65D19/00 B65D19/02 B65D19/06 B65D19/18 (Advanced/Invention); B65D19/06 B65D19/18 (Advanced/Non–invention); B65D19/00 B65D19/02 (Core/Invention); B65D (Subclass/Non–invention)

**International class (IPC 1–7):** B65D B65D19/18

**CPC:** B65D19/18 B65D2519/00024 B65D2519/00029 B65D2519/00034 B65D2519/00059 B65D2519/00064 B65D2519/00069 B65D2519/00094 B65D2519/00099 B65D2519/00104 B65D2519/00174 B65D2519/00268 B65D2519/00273 B65D2519/00288 B65D2519/00318 B65D2519/00338 B65D2519/00373 B65D2519/00452 B65D2519/00497 B65D2519/00557

B65D2519/00572 B65D2519/00582 B65D2519/00656 B65D2519/00666 B65D2519/00875 B65D2519/009 B65D2519/00925 B65D2519/0093

**European class:** B65D19/18 L65D519/00Y1B2 L65D519/00Y1B3 L65D519/00Y1B4 L65D519/00Y1C2 L65D519/00Y1C3 L65D519/00Y1C4 L65D519/00Y1D2 L65D519/00Y1D3 L65D519/00Y1D4 L65D519/00Y1F4 L65D519/00Y2A1 L65D519/00Y2A2 L65D519/00Y2B1 L65D519/00Y2C1 L65D519/00Y2C4B L65D519/00Y2D1 L65D519/00Y2E12F L65D519/00Y2F1 L65D519/00Y3A1 L65D519/00Y3A2 L65D519/00Y3B1 L65D519/00Y3C1A3 L65D519/00Y3C2 L65D519/00Y4H2 L65D519/00Y4H2D L65D519/00Y4H2L L65D519/00Y4H3

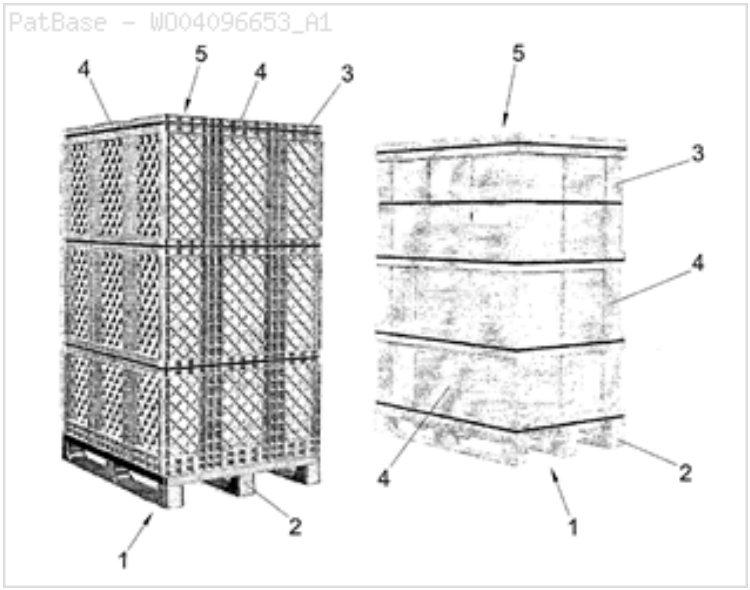
**US class:** 206/600

Classification Explorer

**Cited documents:** WO9636541 A1, WO9221570 A1, WO03029090 A1, WO02085594 A2, US6299011 BA, US6079560 A, US6050410 A, US5934474 A, US5829595 A, US5743422 A, US4630746 A, US2004026296 AA, US2003183544 AA, US2003080024 AA, US2003042297 AA, GB2361225 A1, GB2016420 A1,

**Forward Citations:** US8584327, US8316779, US7810665, US2014083896, US2013277263, US2010012000, US2008164252, JP2012180123,

**Abstract:**
Source: US2007170085A Container, comprising a pallet (2) and an at least partly collapsible and/or disassemblable wall, (3) which wall in a first, folded−out position is placeable on the pallet for forming an inner space enclosed by the wall and the pallet, and in a second, separately from the pallet, is at least partly foldable, while the wall and the pallet can be separately stored and transported.



0) WO04112472A1 – FRAME FOR AND BEE HIVE FOUNDATION AND METHOD OF...

**3) Family number: 31423672** (WO04112472A1) © PatBase

**Title:** FRAME FOR AND BEE HIVE FOUNDATION AND METHOD OF MANUFACTURE

**Priority:** SE20030001838 20030624

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| SE200301838 A | 20050224 | SE20030001838 | 20030624 |
| SE200301838 A0 | 20030624 | SE20030001838 | 20030624 |
| WO04112472 A1 | 20041229 | WO2004SE01033 | 20040623 |

**Probable Assignee:** BHF BEE HIVE FOUNDATION AB

**Assignee(s):**(std)**:** BHF BEE HIVE FOUNDATION AB ; CEDERSTROEM JAN ; LUNDQUIST TOMMY

**Inventor(s):**(std)**:** CEDERSTROEM JAN ; LUNDQUIST TOMMY

**Inventor(s):** TOMMY LUNDQUIST

**Designated states:** AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

**International class (IPC 8–9):** A01K47/02 A01K47/04 (Advanced/Invention); A01K47/00 (Core/Invention)

**International class (IPC 1–7):** A01K47/02 A01K47/04

**CPC:** A01K47/02 A01K47/04

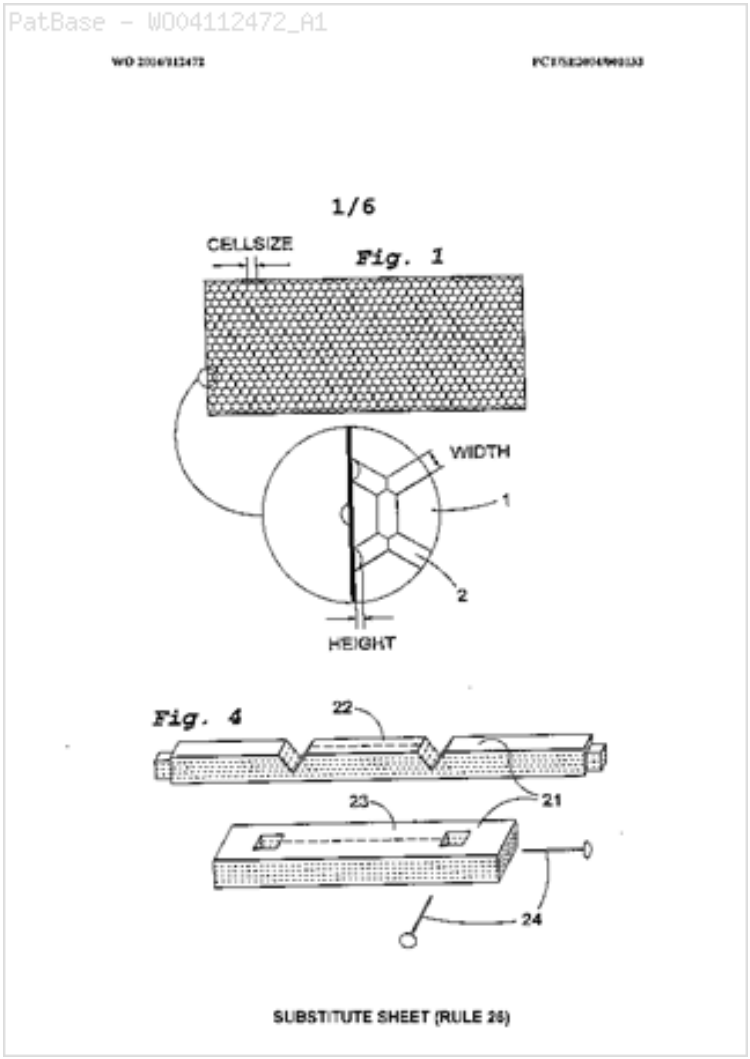
**European class:** A01K47/02 A01K47/04

Classification Explorer

**Cited documents:** US1882938 A, US1773221 A, FR2594637 A1, FR2398453 A1, EP0893234 A2, DE1949124 A1,

**Forward Citations:** WO15013774, DE202015106406,

**Abstract:**
The present invention relates to a frame for supporting a bee hive foundation. According to the invention the frame consists of foldable material, which is folded into a rectangular frame with the aid of folding indentions in the frame material. The invention also relates to a method and apparatus for manufacturing such a frame and bee hive foundation.



0) DE2441735A1 – DOPPELBEUTE – BIENENKASTEN TRANSPORTABLE INDUST...

**4) Family number: 2170795** (DE2441735A1) © PatBase

**Title:** DOPPELBEUTE – BIENENKASTEN TRANSPORTABLE INDUSTRIAL DOUBLE BEEHIVE – HAS ROOF AND DOORS FOLDABLE AND SECURED BY SINGLE HASP

**Priority:** DE19742441735 19740830

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| DE2441735 A1 | 19760311 | DE19742441735 | 19740830 |

**Probable Assignee:** PAVICIC DRAGUTIN DIPL ING

**Assignee(s):**(std)**:** PAVICIC DRAGUTIN DIPL ING

**Assignee(s):** PAVICIC DRAGUTIN DIPL ING 6500 MAINZ

**Inventor(s):**(std)**:** PAVICIC DRAGUTIN DIPL ING

**Inventor(s):** PAVICIC DRAGUTIN DIPL ING 6500 MAINZ

**International class** (IPC 8–9)**:** A01K47/00 (Advanced/Invention); A01K47/00 (Core/Invention)

**International class** (IPC 1–7)**:** A01K49/00

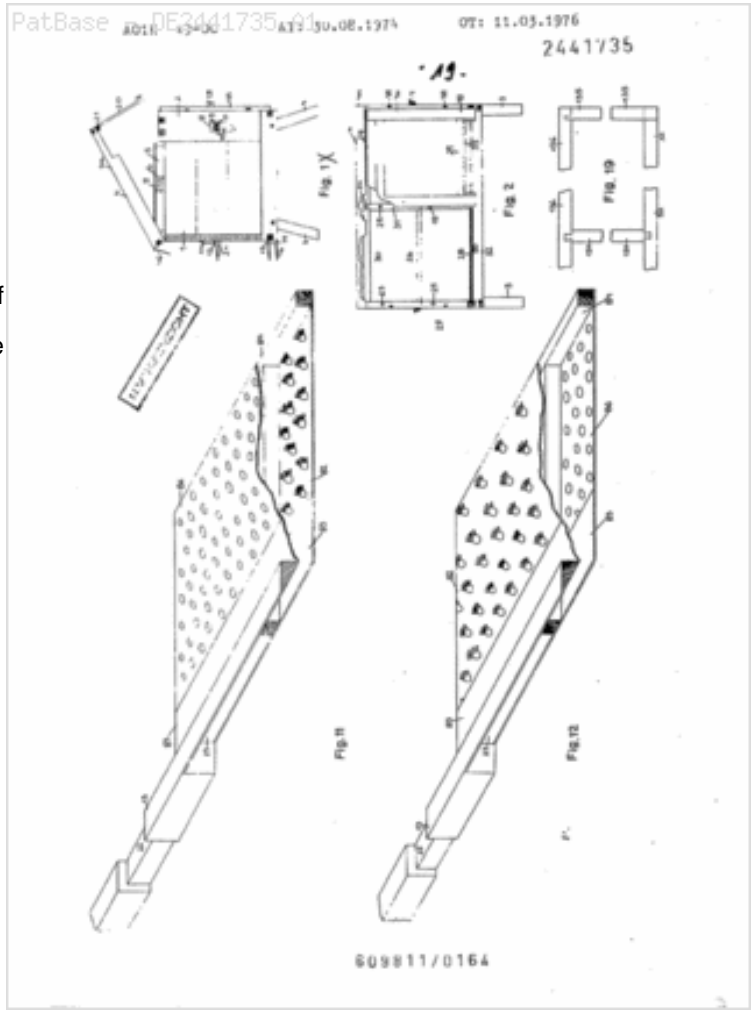
**CPC:** A01K47/00

**European class:** A01K47/00

Classification Explorer

**Forward Citations:** DE202012007392,

**Abstract:**
Source: DE2441735A1
PATENTANSPRRUeCH
Doppelbeute−Eienenkasten fuer die industrielle Honigerzeugung und Aufzucht von Hieneri, dadurch gekennzeichnet, dass er derart ausgebildet ist, dess er von oben und von hinten geoeffnet werden kann, ohne die Kastenstabilitaet zu zerstoeren, und dass die Rahmentraeger (45, 62) zur Aufnehme der Waben nach hinten ausfahrbar angeordnet sind UNTERANSPRUECHE 1. Known types of beehive for high production on fixed sites are too unwieldy for convenient transport. The hive has two doors, each with a ventilation flap at the top and stands on legs that fold away flat. A flat roof has a hinged weatherboard in front and a long hasp at the back, fitting over a staple on the central partition so that a single padlock fastens roof and doors. In the upper part is a main feed tray with a cover and ventilation openings in its side frame. A horizontal partition divides the main (front) and auxiliary (back) sections into two floors.



0) CA2505778A – MULTI–PURPOSE OCST TENTS TENTES POLYVALENTES D...

**5) Family number: 33586441** (CA2505778A)

© PatBase

**Title:** MULTI–PURPOSE OCST TENTS

**Priority:** CA20052505778 20050420

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| CA2505778 AA | 20061020 | CA20052505778 | 20050420 |

**Probable Assignee:** ALIGHANBARI ABBAS

**Assignee(s):**(std)**:** ALIGHANBARI ABBAS

**Inventor(s):**(std)**:** ALIGHANBARI ABBAS

**International class (IPC 8–9):** A01G9/16 E04H15/00 E04H15/20 E04H15/30 E04H15/32 (Advanced/Invention); A01G9/16 E04H15/00 E04H15/20 E04H15/32 (Core/Invention)

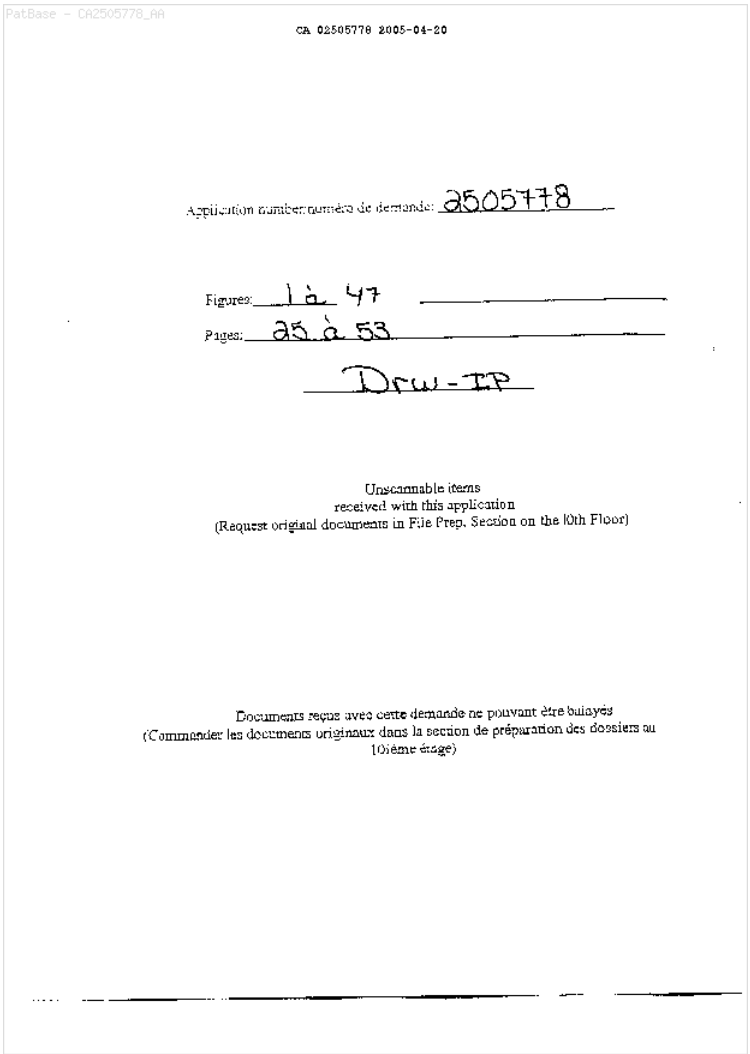
**CPC:** A01G9/16 A01G13/043 E04H15/28 E04H15/30 E04H15/40 E04H15/425 E04H15/50

**European class:** A01G13/04B A01G9/16 E04H15/28 E04H15/30 E04H15/40 E04H15/42A E04H15/50

Classification Explorer

**Forward Citations:** WO15079085, GB2494863,

**Abstract:**
Source: CA2505778A Modern Outdoor Cold/Cool Season Sun–Tanning (OCST) tents have been introduce d. The main purpose of such tents is to provide heat protection for a sun–tanner in cold or cool weather condition. These tents are made by applying modifications on modern camping tents, and hence they enjoy structural advances of modern tents, therefore they are collapsible, low–weight, user– friendly, flexible, strong, stylish and likeable. With special covers, named OCST covers, sheets, and flies, such tents are convertible and can be used for both camping and s un– tanning in all seasons.



0) RU154001U – BEEHIVE (MACHINE TRANSLATION)

**6) Family number: 60046380** (RU154001U) © PatBase

**Title:** Beehive (Machine translation)

**Priority:** RU20150115951U 20150427

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| RU154001 U1 | 20150810 | RU20150115951U | 20150427 |

**Probable Assignee:** OFFENDS SERGEY

**Assignee(s):** OFFENDS SERGEY

**International class (IPC 8–9):** A01K47/00 (Advanced/Invention)

Classification Explorer

**Abstract:**
Source: RU154001U 1. Bee hive, comprising a housing which has walls and a diaphragm adapted to arbitrary spatial displacement relative to each other and forming, located on the two opposite sides of four nucleus, each of which is taken three nukleusnyh frame, characterized in that the used housing standard 12–frame hive Dadant, partitions arranged to generate between them with the other opposite sides of the hive two additional cores and nukleusnaya frame is formed as a section of the three–section folding box, the size of which in the expanded form is the size of a standard frame Dadant, the adjacent section frames are connected with the possibility of overlapping side sections on opposite sides of the middle sektsii.2. Bee hive of claim. 1, characterized in that the three–section foldable framework sections connected plastic rubber ribbon.

- **search:** SS5 FT=hive* and bee* and (infestation or parasite) and wall* (Results 26)
- List: SS5 1–50 (FT=hive* and bee* and (infestation or parasite) and wall*) (Results 26)

0) US2004229542A – TREATMENT FLUID DISPENSER FOR CONTROL OF MITES ...

**1) Family number: 21600865** (US2004229542A) © PatBase

**Title:** TREATMENT FLUID DISPENSER FOR CONTROL OF MITES

**Priority:** AU20020212005 20011012 CA20002323263 20001013 WO2001CA01434 20011012

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| AR031267 AA | 20030917 | AR2001P104793 | 20011012 |
| AU2002212005 AA | 20020422 | AU20020212005 | 20011012 |
| AU2007254636 AA | 20080131 | AU20070254636 | 20071224 |
| AU2007254636 BB | 20080717 | AU20070254636 | 20071224 |
| CA2323263 AA | 20020413 | CA20002323263 | 20001013 |
| CA2323263 C | 20091201 | CA20002323263 | 20001013 |
| EP1328150 A1 | 20030723 | EP20010980071 | 20011012 |
| NZ525785 A | 20041029 | NZ20010525785 | 20011012 |
| US2004229542 AA | 20041118 | US20030410199 | 20030410 |
| US6837770 BB | 20050104 | US20030410199 | 20030410 |
| WO0230181 A1 | 20020418 | WO2001CA01434 | 20011012 |

**Probable Assignee:** RUZICKA VACLAV

**Assignee(s):**(std)**:** RUZICKA VACLAV ; VACLAV RUZICKA

**Inventor(s):**(std)**:** RUZICKA VACLAV

**Inventor(s):** VACLAV RUZICKA

**Agent(s):** PATENT ATTORNEY SERVICES; RUZICKA VACLAV; NA

**Designated states:** AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ PH PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

**International class (IPC 8–9):** A01K51/00 A01M1/20 A01N25/10 A01N25/34 A01N37/02 (Advanced/Invention); A01K51/00 A01M1/20 A01N25/10 A01N25/34 A01N37/02 (Core/Invention)

**International class (IPC 1–7):** A01K47/06 A01K51/00 A01M1/20 A01N25/10 A01N25/34 A01N37/02

**CPC:** A01K51/00 A01M1/2044 A01M2200/012

**European class:** A01K51/00 A01M1/20A A01M1/20C2L K01M200/012 K01M201/02

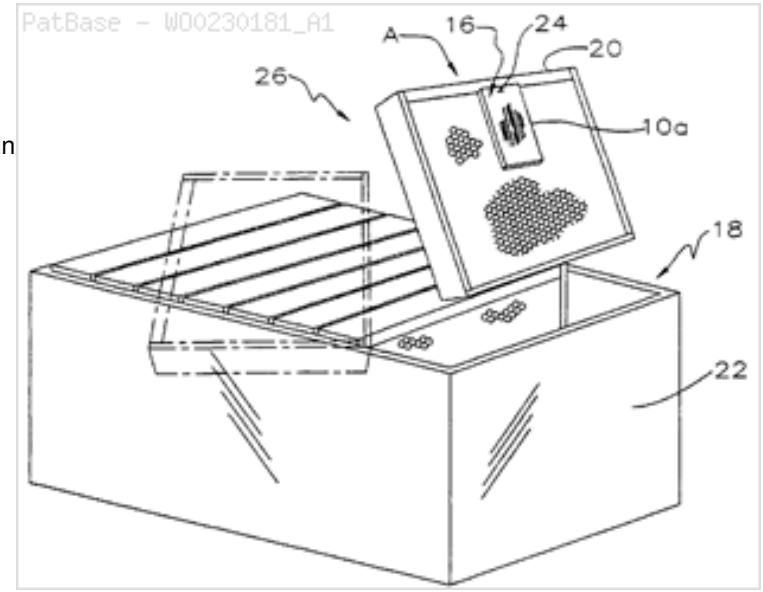
**US class:** 449/2 449/3

Classification Explorer

**Cited documents:** WO9732470 A1, US6472442 BA, US6343433 BA, US6090479 A, US5575139 A, US4965287 A, US4824719 A, US4663226 A, US4614299 A, US3620453 A, US2956366 A, DE3427330 A1, DE19636498 A1,

**Forward Citations:** WO14107664, WO12170420, WO11029754, WO09103276, WO09103276, WO09059415, US9545110, US9101132, US7591369, US7390238, US2006089217, US2005064788, EP1374678, AT8031,

**Abstract:**
Source: US2004229542A A treatment fluid dispenser pad includes a phenolic foam core encased in a fluid impervious skin or sheath. The fluid impervious skin or sheath is sealed about the phenolic foam core. The pad is cut in one or more sections and soaked in formic acid fluid. Each section of pad is vertically hung in a bee space so as to downwardly dispose an exposed surface of the phenolic foam core to thereby evaporate acid at a uniform rate.



0) US2008026674A – COMPOSITIONS AND METHODS FOR THE TREATMENT AND ...

**2) Family number: 41159555** (US2008026674A)

© PatBase

**Title:** COMPOSITIONS AND METHODS FOR THE TREATMENT AND MANAGEMENT OF BEE HIVES AND THE BEES THEREIN

**Priority:** US20060820541P 20060727 US20070829366 20070727

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| US2008026674 AA | 20080131 | US20070829366 | 20070727 |
| US7922559 BB | 20110412 | US20070829366 | 20070727 |

**Probable Assignee:** COOK ERNEST C

**Assignee(s):**(std)**:** COOK ERNEST C

**Inventor(s):**(std)**:** COOK ERNEST C

**Agent(s):** WOODARD EMHARDT MORIARTY MCNETT AND HENRY LLP; BRANNON SOWERS HUGHEL PC; EDWARD R

**International class**(IPC 8–9)**:** A01K47/00 A01K51/00 (Advanced/Invention); A01K47/00 (Core/Invention)

**CPC:** A01K51/00

**European class:** A01K51/00

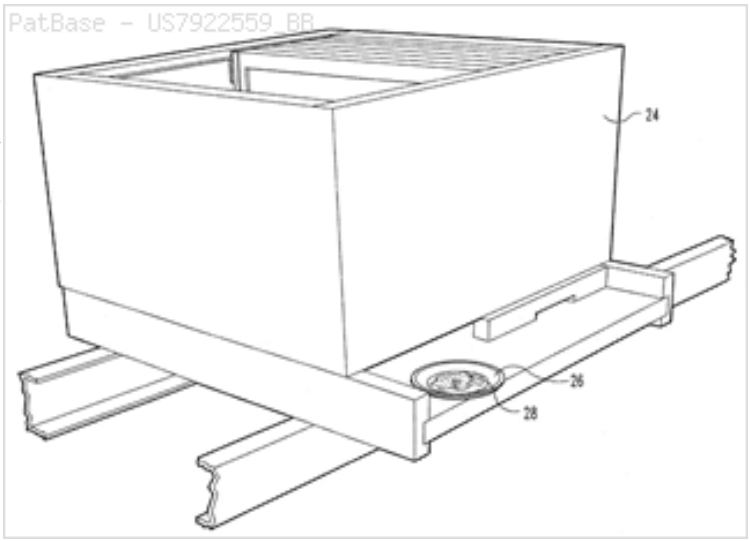
**US class:** 449/2 449/26 449/26S 449/2P

Classification Explorer

**Cited documents:** US6646014 BB, US6096350 A, US6037374 A, US4965287 A, US4876265 A, US4659739 A, US4646377 A, US4277492 A, US2446346 A,

**Forward Citations:** WO12108857, US9485968, US9232774, US8272921, US7575694, US2015272087, US2013316614, US2011256494, US2007151948, CN104904623,

**Abstract:**




Source: US2008026674A Compositions and methods for managing bee colonies to prevent a variety of diseases, infestations and generally improve the health and productivity of the colony are provided. Such diseases may arise from a variety of sources, including bacteria, fungi, viruses, protozoa and parasites that infest the colony and the hive. Representative diseases preventable or treatable by this compositions and methods disclosed herein include, but are not limited to Foulbrood, Chalkbrood, and Nosema. Examples of infestations treatable and preventable by the compositions and methods disclosed include acarids or mites and insects such as hive beetles and the like. The compositions of the present invention include neutral or acidic solutions of an aromatic sulfonic acid, aqueous salt solutions, and wood sealants. Methods disclosed herein include applying the aqueous compositions to an interior surface of a bee–hive, suspending hive frames by novel corrosion resistant brackets that minimize the absorption of moisture within the hive body and provide bees access to more of the hive's interior for policing, cleaning and housekeeping purposes. The novel brackets and honey produced by bees administered one or more compositions of this invention are also disclosed.

0) WO07102035A2 – BEE HIVE FOR CONTROLLING SMALL HIVE BEETLE INFE...

**3) Family number: 36069280** (WO07102035A2) © PatBase

**Title:** BEE HIVE FOR CONTROLLING SMALL HIVE BEETLE INFESTATION AND METHOD FOR PREVENTING SWARMING

**Priority:** HU20060000190 20060308

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| HU0600190 A0 | 20060428 | HU20060000190 | 20060308 |
| HU0600190 AB | 20071128 | HU20060000190 | 20060308 |
| WO07102035 A2 | 20070913 | WO2007HU00019 | 20070306 |
| WO07102035 A3 | 20081113 | WO2007HU00019 | 20070306 |

**Probable Assignee:** ANIVET KFT

**Assignee(s):**(std)**:** ANIVET KFT ; KONYA LAJOS

**Inventor(s):**(std)**:** KONYA LAJOS

**Designated states:** AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

**International class (IPC 8–9):** A01K47/00 A01K47/06 A01K49/00 A01K51/00 (Advanced/Invention); A01K47/00 A01K49/00 A01K51/00 (Core/Invention)

**CPC:** A01K47/06 A01K49/00 A01K51/00

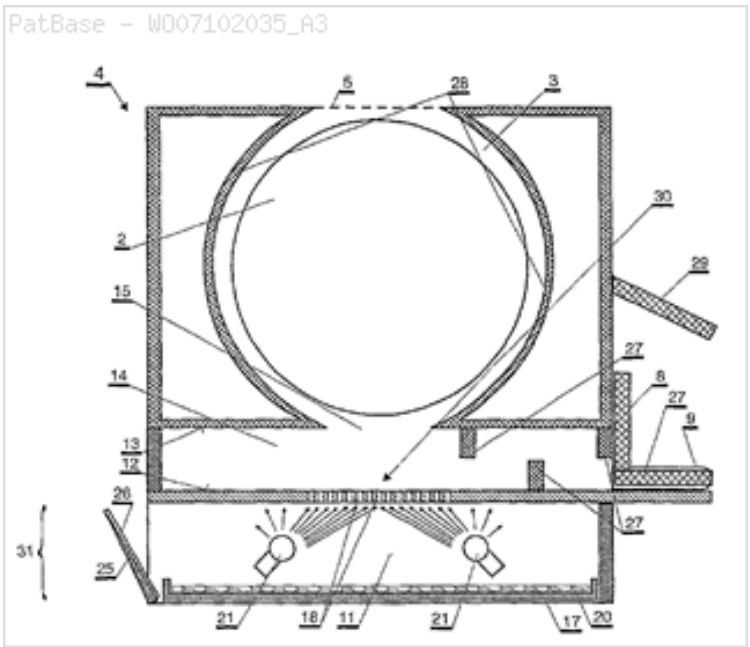
**European class:** A01K47/06 A01K49/00 A01K51/00

Classification Explorer

**Cited documents:** WO03007704 A1,

**Forward Citations:** WO16157232, US2013019518, DE102013005587,

**Abstract:**
Rotating brood–frame bee hive for controlling small hive beetle infestation of the hive. Under the brood chamber (4) a corridor (14) bordered by a lower wall (12) and an upper wall (13) is provided, the upper wall being the lower panel of the brood chamber (4) in which an opening (15) is formed. The lower wall (12) is provided with a gateway (30) for the larvae of the small hive beetle. A collecting tray (17) is arranged at least beneath the gateway (30). The corridor's lower wall (12) provided with the gateway (30) is illuminated from below. During the method the brood frames are rotated by 180 degrees every 24 hours around a shaft which is parallel with the ground so that 45 degrees rotation is effected every 6 hours or 90 degrees rotation is effected every 12 hours, thereby swarming is prevented.



0) AU2015238870A – A SMALL HIVE BEETLE TRAP AND METHOD OF USE

**4) Family number: 65554299** (AU2015238870A)

© PatBase

**Title:** A SMALL HIVE BEETLE TRAP AND METHOD OF USE

**Priority:** AU20150238870 20151008

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| AU2015238870 AA | 20170427 | AU20150238870 | 20151008 |

**Probable Assignee:** MINCHEV DWAYNE

**Assignee(s):**(std)**:** MINCHEV DWAYNE ; WALLACE BRUCE

**Assignee(s):** WALLACE BRUCE QUENTIN ; MINCHEV DWAYNE CARL

**Inventor(s):**(std)**:** WALLACE BRUCE QUENTIN

**Agent(s):** CULLENS PTY LTD

**International class (IPC 8–9):** A01M1/00 A01M1/02 A01M1/10 (Advanced/Invention)

Classification Explorer

**Abstract:**
Source: AU2015238870A (Figure 1) The present invention relates to a small hive beetle trap for use with or when used with a bee hive. The trap includes a frame formed from one or more frame members and a corrugated panel held by the frame and adapted to direct small hive beetles and their larvae into troughs of the panel. Each trough further includes at least one opening that allows the passage of the beetles and their larvae into a removable tray located beneath the panel where the beetles and the larvae are trapped. 100 122a 120 Figure I

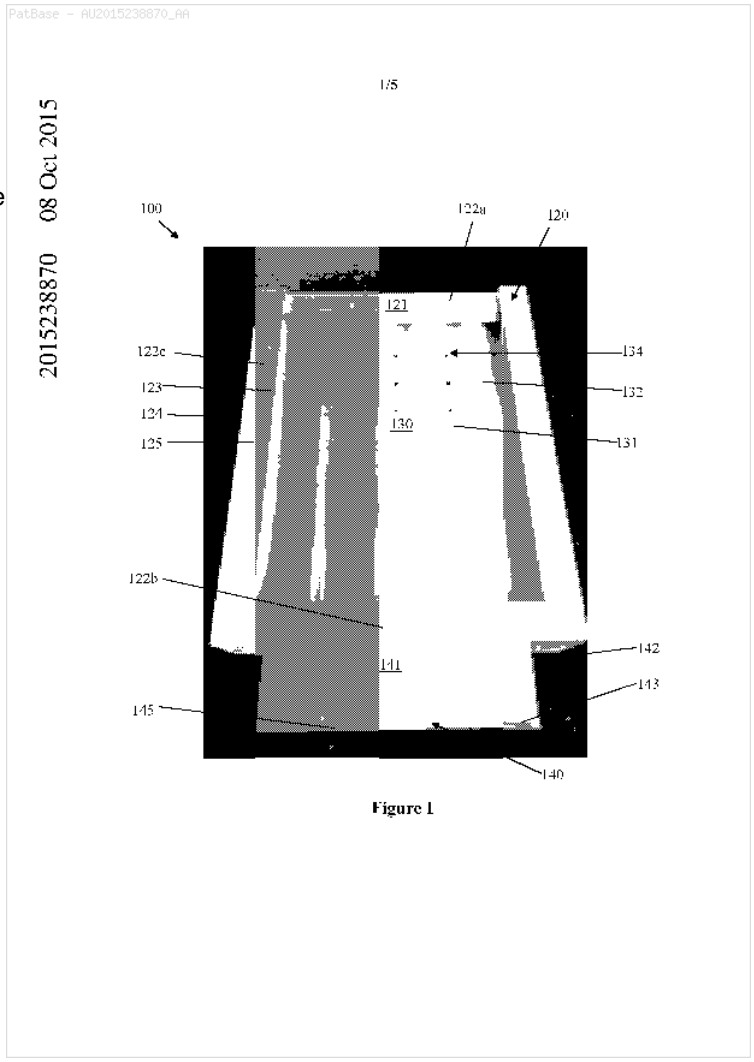



Figure 1

0) US2009197507A – APPARATUS FOR REMOVING PARASITES FROM BEES WITH...

**5) Family number: 43590695** (US2009197507A) © PatBase

**Title:** APPARATUS FOR REMOVING PARASITES FROM BEES WITHIN A HIVE AND METHOD OF ACCOMPLISHING THE SAME

**Priority:** US20080023440 20080131

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| US2009197507 AA | 20090806 | US20080023440 | 20080131 |
| US7766722 BB | 20100803 | US20080023440 | 20080131 |

**Probable Assignee:** ARNDT MAURICE W

**Assignee(s):**(std)**:** ARNDT MAURICE W

**Inventor(s):**(std)**:** ARNDT MAURICE W

**Agent(s):** ZARLEY LAW FIRM PLC

**International class (IPC 8–9):** A01K51/00 A01K55/00 A01M1/20 (Advanced/Invention); A01K51/00 A01K55/00 A01M1/20 (Core/Invention)

**CPC:** A01K51/00 A01K55/00

**European class:** A01K51/00 A01K55/00

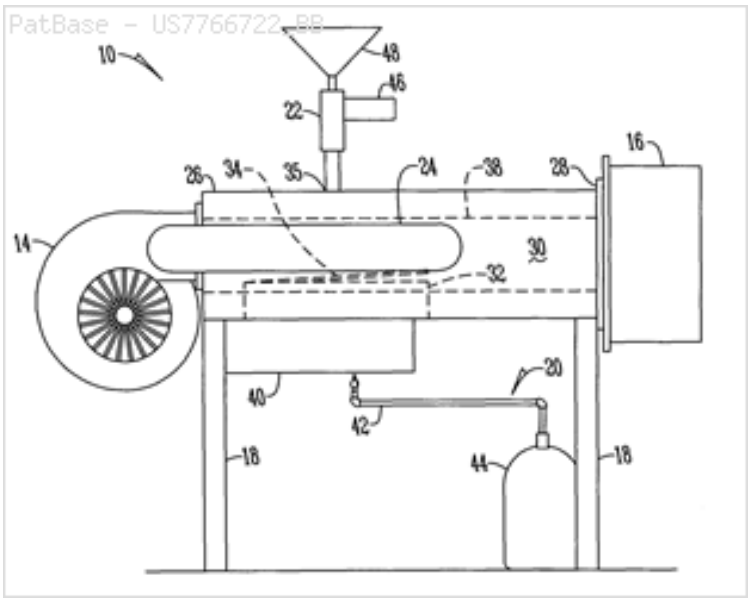
**US class:** 43/130 449/12 449/13 449/2 449/50 449/61

Classification Explorer

**Cited documents:** US652379 A, US5069651 A, US4481687 A, US3392479 A, US3161985 A, US2662332 A, US2005262756 AA, US192905 A,

**Forward Citations:** WO16151468, US8353126, US2011078944, US2011016770,

**Abstract:**
Source: US2009197507A An apparatus and method for removing parasites from bees within a hive. The apparatus has a housing that extends from a first end to a second end and has a hollow interior. An air moving device is attached to the first end and a spout is connected to the second end. A container is located within the hollow interior of the housing and contains a parasite killing solution therein. The spout is then connected to a bee hive such that a heating system in communication with the housing can cause the parasite killing solution to boil allowing the air moving device to take the steam from the parasite killing solution to the interior of the hive to kill parasites.



0) US2016212977A – DEVICE FOR DIAGNOSING INFESTATION

**6) Family number: 55625826** (US2016212977A) © PatBase

**Title:** DEVICE FOR DIAGNOSING INFESTATION

**Priority:** DE201320007841U 20130904 WO2014EP68617 20140902

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| AU2014317213 AA | 20150312 | AU20140317213 | 20140902 |
| CA2922880 AA | 20160301 | CA20142922880 | 20140902 |
| CN105491881 A | 20160413 | CN201480048940 | 20140902 |
| CO16055554 A2 | 20160620 | CO20160055554 | 20160303 |
| CR20160109 A | 20160422 | CR20160000109 | 20160304 |
| DE202013007841 U1 | 20140116 | DE201320007841U | 20130904 |
| DOP2016000056 A | 20160315 | DO20160000056 | 20160226 |
| EP3041349 A1 | 20160713 | EP20140780772 | 20140902 |
| IL244266 A0 | 20160421 | IL20140244266 | 20140902 |
| IN201647006876 A | 20160701 | IN201647006876 | 20160229 |
| JP2016536000 T2 | 20161124 | JP20160539505T | 20140902 |
| KR20160050022 A | 20160510 | KR20167004970 | 20140902 |
| MX2016002533 A1 | 20160621 | MX20160002533 | 20140902 |
| PE03682016 A1 | 20160511 | PE20160000336 | 20140902 |
| PH2016500419 A | 20160516 | PH20160500419 | 20160303 |
| US2016212977 AA | 20160728 | US20140916244 | 20140902 |
| WO15032753 A1 | 20150312 | WO2014EP68617 | 20140902 |

**Probable Assignee:** BAYER ANIMAL HEALTH GMBH

**Assignee(s):**(std)**:** BAYER ANIMAL HEALTH GMBH

**Assignee(s):** BUCHLER RALPH ; HABIG JORG ; KRIEGER KLEMENS

**Inventor(s):**(std)**:** BUCHLER RALPH ; BUECHLER RALPH ; HABIG JOERG ; HABIG JORG ; JORG HABIG ; KLEMENS KRIEGER ; KRIEGER KLEMENS ; RALPH BUCHLER

**Inventor(s):** RALPH BUECHLER ; JOERG HABIG

**Agent(s):** GRIFFITH HACK; FETHERSTONHAUGH AND CO; CAROLINA MERCEDES DAZA MONTALVO; BIP PATENTS; SHIGEMORI KAZUKI; TSUBOKURA MICHIAKI; KANAYAMA MASATAKA; ONO MAKOTO

**Designated states:** AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

**International class (IPC 8–9):** A01K A01K47/00 A01K47/06 A01K51/00 A01M1/00 A01M1/14 A01M1/20 (Advanced/Invention); A01K (Subclass/Invention)

**CPC:** A01K47/00 A01K47/06 A01K51/00

**US class:** 449/2

Classification Explorer

**Cited documents:** US6468129 BA, US4867731 A, US2008280528 AA, GB2495284 A1,

DE202011106067 U1

**Forward Citations:** DE202015106406, DE102014110009,

**Abstract:**
Source: US2016212977A The invention relates to a device for examining the infestation of honey bee colonies with Varroa mites. The device contains a container with a bottom, side walls and a cover. Within the container there is a means which causes the Varroa mites to drop off the bees, but does not harm the bees, and a means for fixing the dropped Varroa mites to the bottom of the container. The invention furthermore relates to a method of examining the degree of infestation of honey bee colonies with Varroa mites using the device according to the invention, and to a method for examining the sensitivity of the Varroa mites of a bee colony to various acaricid–containing active compounds using the device according to the invention.

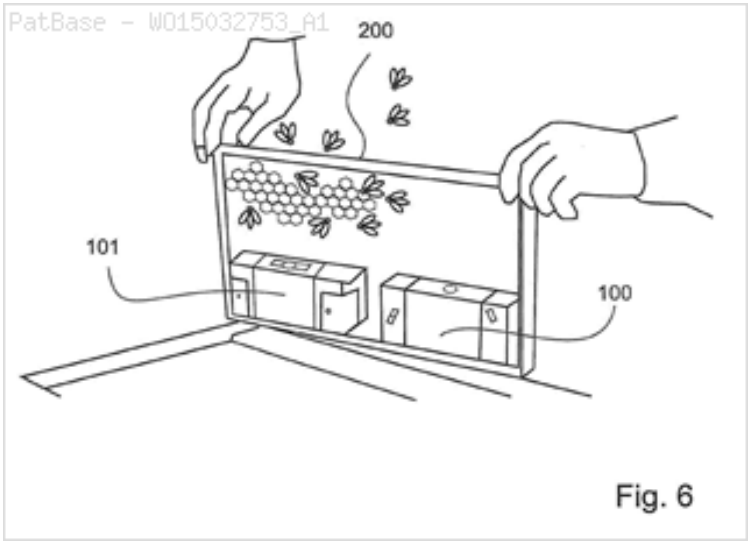


Fig. 6

0) CA2652625A – APPARATUS FOR REMOVING PARASITES FROM BEES WITH...

**7) Family number: 46560871** (CA2652625A)

© PatBase

**Title:** APPARATUS FOR REMOVING PARASITES FROM BEES WITHIN A HIVE AND METHOD OF ACCOMPLISHING THE SAME

**Priority:** CA20092652625 20090205

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| CA2652625 AA | 20100805 | CA20092652625 | 20090205 |
| CA2652625 C | 20121113 | CA20092652625 | 20090205 |

**Probable Assignee:** ARNDT MAURICE W

**Assignee(s):**(std)**:** ARNDT MAURICE W

**Inventor(s):**(std)**:** ARNDT MAURICE W

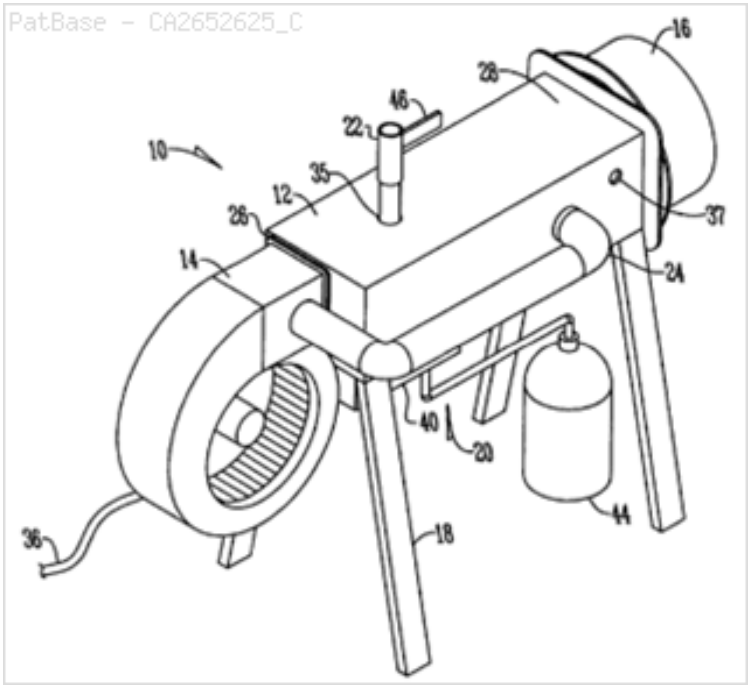
**International class (IPC 8–9):** A01K51/00 A01M13/00 (Advanced/Invention); A01K51/00 A01M13/00 (Core/Invention)

**CPC:** A01K51/00 A01M13/00

**European class:** A01K51/00 A01M13/00

Classification Explorer

**Abstract:**
Source: CA2652625A An apparatus and method for removing parasites from bees within a hive. The apparatus has a housing that extends from a first end to a second end and has a hollow interior. An air moving device is attached to the first end and a spout is connected to the second end. A container is located within the hollow interior of the housing and contains a parasite killing solution therein. The spout is then connected to a bee hive such that a heating system in communication with the housing can cause the parasite killing solution to boil allowing the air moving device to take the steam from the parasite killing solution to the interior of the hive to kill parasites.



0) US2011016770A – METHOD FOR COMBINED APPLICATION OF TWO SUBSTANC...

**8) Family number: 43653357** (US2011016770A) © PatBase

**Title:** METHOD FOR COMBINED APPLICATION OF TWO SUBSTANCES FOR SIMULTANEOUS PREVENTION AND MONITORING OF DIFFERING TYPES OF PEST

**Priority:** DE200810009666 20080218 EP20080075518 20080526 US20080105098P 20081014 US20080105098 20081014 EP20090712253 20090217 US20090918041 20090217 WO2009DE000223 20090217

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| AU2009217099 AA | 20090827 | AU20090217099 | 20090217 |
| DE112009000939 A5 | 20110120 | DE200911000939T | 20090217 |
| EP2247179 A2 | 20101110 | EP20090712253 | 20090217 |
| US2011016770 AA | 20110127 | US20090918041 | 20090217 |
| WO09103276 A2 | 20090827 | WO2009DE000223 | 20090217 |
| WO09103276 A3 | 20091210 | WO2009DE000223 | 20090217 |

**Probable Assignee:** BUCHHOLZ SVEN

**Assignee(s):**(std)**:** BUCHHOLZ SVEN

**Assignee(s):** SVEN BUCHHOLZ

**Inventor(s):**(std)**:** BUCHHOLZ SVEN

**Inventor(s):** SVEN BUCHHOLZ

**Agent(s):** EAGAR BARRY MR; BARRY EAGAR; EAGAR AND MARTIN PTY LTD; LANGE SVEN; JOYCE VON NATZMER,PEQUIGNOT AND MYERS LLC; JOYCE VON NATZMER PEQUIGNOT AND MYERS LLC

**Designated states:** AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

**International class**(IPC 8–9)**:** A01K51/00 A01M1/20 A01N59/00 A01N59/06 A01P7/02 A01P7/04 (Advanced/Invention); A01K51/00 (Core/Invention)

**CPC:** A01K51/00

**European class:** A01K51/00

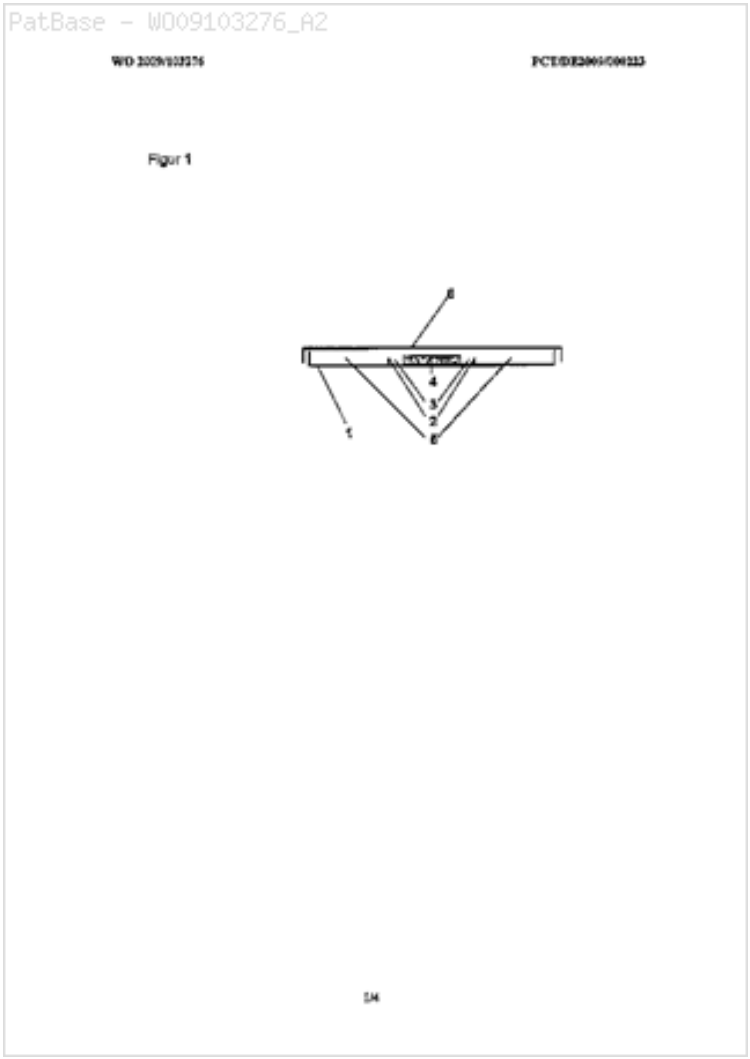
**US class:** 424/722 424/722S 424/724 424/724S 43/107 43/107P

Classification Explorer

**Cited documents:** WO0230181 A1, US7766722 BB, US5877322 A, US5070091 A, US4965287 A, US4271166 A, DE29611290 U1,

**Forward Citations:** US2015123801, US2013019518, KR101424083,

**Abstract:**
Source: US2011016770A The idea of the combination trap is to enable an apiarist to simultaneously control two bee pests in a single operation. In places where one of the pests does not yet occur, the trap serves in monitoring and prevention. The trap comprises a mechanically simple apparatus and two active substances.



0) US2015296751A – APPARATUS FOR KILLING PARASITES IN A BEE HIVE

**9) Family number: 60599804** (US2015296751A) © PatBase

**Title:** APPARATUS FOR KILLING PARASITES IN A BEE HIVE

**Priority:** US20140254165 20140416

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| US2015296751 AA | 20151022 | US20140254165 | 20140416 |

**Probable Assignee:** ARNDT MAURICE W

**Assignee(s):**(std)**:** ARNDT MAURICE W

**Inventor(s):**(std)**:** ARNDT MAURICE W

**International class (IPC 8–9):** A01K51/00 A01M13/00 A01M19/00 (Advanced/Invention)

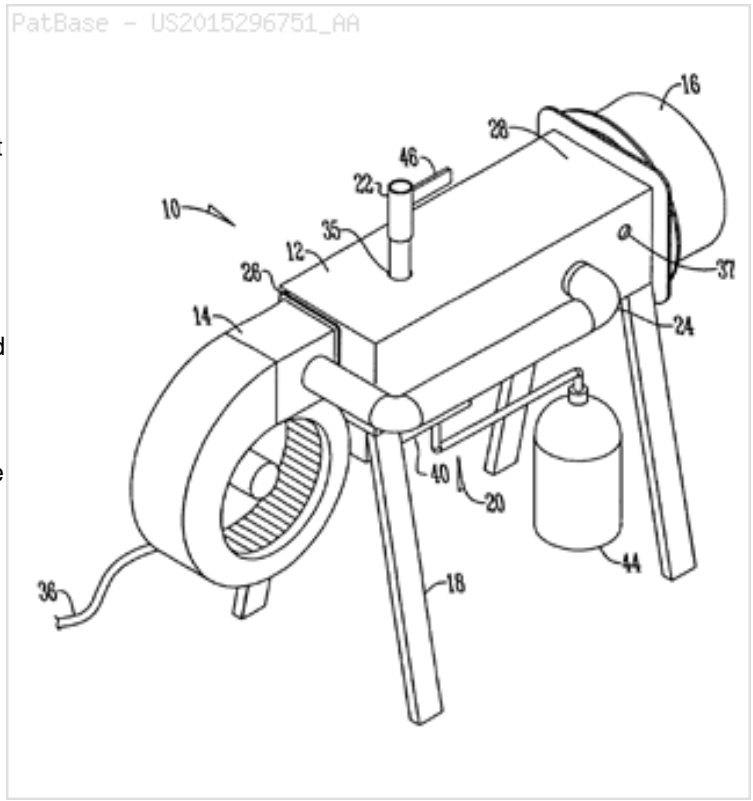
**CPC:** A01K51/00 A01M1/2088

**US class:** 43/130

Classification Explorer

**Cited documents:** US5222666 A, US4378375 A,

**Abstract:**
Source: US2015296751A An apparatus for removing parasites from bees within a hive. The hive specifically has a top, bottom and side walls and enclose a hive compartment wherein a bottom opening is provided adjacent said bottom wall for permitting bees to enter and exit the hive compartment. The apparatus includes a housing that extends from a first end to a second end and has a hollow interior therebetween. Additionally provided is an air moving device having an opening that fits in sealing mating relation with the first end of the housing. A spout is attached to the second end of the housing and has a spout opening wherein the spout is fit in sealing mating relation over the bottom opening of the hive. A container is disposed within the housing that holds a parasite killing solution having no more than 25 percent acidic acid therein such that a heating system in communication with the housing heats the parasite killing solution to a boil to produce steam. The air moving device then causes the steam from the parasite killing solution to be forced through the housing and the spout opening into the hive in order to kill all parasites therein.



**10) Family number: 44044036** (US2011129499A) © PatBase

**Title:** DUAL DELIVERY SYSTEM FOR HETEROLOGOUS ANTIGENS

**Priority:**

| | | | | | |
|---|---|---|---|---|---|
| AU20120229218 | 20120312 | AU20120296474 | 20120312 | AU20120296474 | 20120816 |
| AU20130232291 | 20130312 | AU20160234980 | 20160929 | AU20150223136 | 20150225 |
| US20080071792P | 20080519 | US20080071792 | 20080519 | US20090260277P | 20091111 |
| EP20090751395 | 20090519 | JP20110510653T | 20090519 | JP20150067888 | 20150330 |
| JP20130531954T | 20111003 | JP20160148300 | 20160728 | US20090993380 | 20090519 |
| US20110993380 | 20110207 | US20110290783 | 20111107 | US20110210696 | 20110816 |
| US20110451651P | 20110311 | US20120609627P | 20120312 | US20110876810 | 20111003 |
| US20120004455 | 20120312 | US20100945386 | 20101112 | US20130876810 | 20130613 |
| US20130383970 | 20130312 | US20140004455 | 20140326 | US20100388822P | 20101001 |
| US20100409730P | 20101103 | US20120028757 | 20120312 | US20120051187 | 20120816 |
| WO2009US44538 | 20090519 | WO2012US28757 | 20120312 | WO2012US51187 | 20120816 |
| US20140268436 | 20140502 | US20140189008 | 20140225 | WO2013US30521 | 20130312 |
| US20140204806 | 20140311 | US20140341215 | 20140725 | US20150669629 | 20150326 |
| WO2015US17559 | 20150225 | US20140076411P | 20141106 | US20150788936 | 20150701 |
| US20140026085P | 20140718 | US20140076406P | 20141106 | US20150877601 | 20151007 |
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**Family:**

| Publication number | Publication date | Application number | Application date |
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| AU2012229218 AA | 20120920 | AU20120229218 | 20120312 |
| AU2012229218 BB | 20170302 | AU20120229218 | 20120312 |
| AU2012296474 AA | 20130221 | AU20120296474 | 20120816 |
| AU2012296474 BB | 20170504 | AU20120296474 | 20120816 |
| AU2013232291 AA | 20130919 | AU20130232291 | 20130312 |
| AU2013232291 AH | 20160721 | AU20130232291 | 20130312 |
| AU2013232291 BB | 20160630 | AU20130232291 | 20130312 |
| AU2013232291 BH | 20160721 | AU20130232291 | 20130312 |
| AU2015223136 AA | 20150903 | AU20150223136 | 20150225 |
| AU2015253737 AA | 20151105 | AU20150253737 | 20150402 |
| AU2015289529 AA | 20160121 | AU20150289529 | 20150717 |
| AU2016234980 AA | 20161027 | AU20160234980 | 20160929 |
| BR112014003610 A2 | 20170314 | BR20141103610 | 20120816 |
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| CA2947677 AA | 20161101 | CA20152947677 | 20150402 |
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| JP2014525935 T2 | 20141002 | JP20140526219T | 20120816 | |
| JP2015213500 A2 | 20151203 | JP20150067888 | 20150330 | |
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| JP2016196501 A2 | 20161124 | JP20160148300 | 20160728 | |
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| JP6039669 B2 | 20161207 | JP20140526219T | 20120816 | |
| KR20140089341 A | 20140714 | KR20147006938 | 20120816 | |
| KR20140134695 A | 20141124 | KR20147028196 | 20130312 | |
| KR20160122829 A | 20161024 | KR20167025517 | 20150225 | |
| KR20170002552 A | 20170106 | KR20167033949 | 20150402 | |
| KR20170028363 A | 20170313 | KR20177001578 | 20150717 | |
| MX2014011061 A1 | 20160929 | MX20140011061 | 20130312 | |
| MX2016011114 A1 | 20170220 | MX20160011114 | 20150225 | |
| SG10201700392U A1 | 20170330 | SG20171000392 | 20130312 | |
| SG11201405605V A | 20141030 | SG20141105605 | 20130312 | |
| TW201412984 A | 20140401 | TW20130129605 | 20130816 | |
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**Inventor(s):** HARN JR ; MCEWAN LISA ; HARN DONALD A

**Agent(s):** WATERMARK PATENT AND TRADE MARKS ATTORNEYS; WATERMARK INTELLECTUAL PROPERTY PTY LTD; FB RICE; NORTON ROSE FULBRIGHT CANADA LLP SENCRL SRL; OSLER HOSKIN AND HARCOURT LLP; RIGBY BARBARA NICOLE; PEARL COHEN ZEDEK LATZER UK LLP; PEARL COHEN ZEDEK LATZER BARATZ UK LLP; BENTHAM ANDREW; OSHIMA AND PARTNERS; ONDA MAKOTO; ONDA HIRONORI; ALLEN AND GLEDHILL LLP; MARK S; PEARL COHEN ZEDEK LATZER BARATZ LLP; MARK; ALSTON AND BIRD LLP; COHEN MARK S; MARK COHEN S; COHEN MARK S ET AL; PEARL COHEN ZEDEK LATZER BARATZ LLP ET AL

**Designated states:** AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ

LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

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A61P11/06 A61P35/00 C12N15/09 (Advanced/Non–invention);
A61K39/02 A61P35/00 C12N1/21 (Core/Invention);
A61K A61P (Subclass/Invention)

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**European class:** A61K39/00C A61K39/00D6 A61K39/12 A61K39/21 C07K14/47A34 C07K14/515 C12N15/62 K61K39/52C K61K39/57T K61K39/60C M12N710/20034 M12N740/16034

**US class:** 1/1 424/188.1 424/190.1 424/192.1 424/200.1 424/200.100P 424/234.1 424/234.100P 424/85.1 424/93.2 424/93.200S 435/252.3 435/252.300S 435/471 435/471S 435/476 435/476S 506/16 506/16S 536/23.5 536/23.500S 600/1

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**Abstract:**
Source: US2011129499A Provided herein are recombinant Listeria strains expressing a tumor−specific antigenic polypeptide and, optionally, an angiogenic polypeptide wherein a nucleic acid molecule encoding at least one of the polypeptides is operably integrated into the Listeria genome in an open reading frame with a nucleic acid sequence encoding a PEST−containing polypeptide, methods of preparing same, and methods of inducing an immune response, and treating, inhibiting, or suppressing cancer or tumors comprising administering same.

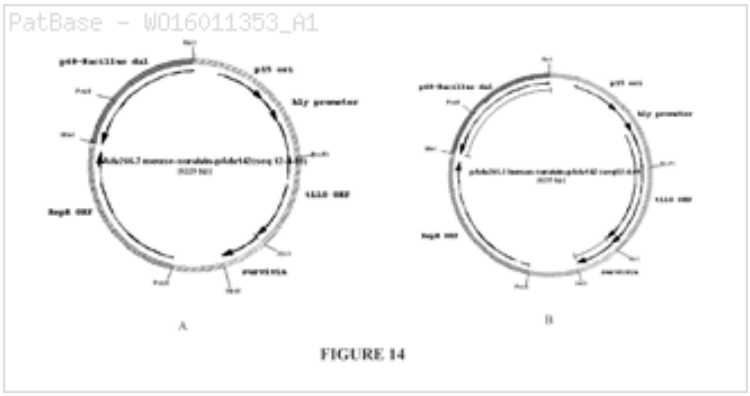


FIGURE 14

0) FR2894431B – PROCEDE DE LUTTE CONTRE L'INFESTATION DES RUCHE...

**11) Family number: 34588410** (FR2894431B) © PatBase

**Title:** PROCEDE DE LUTTE CONTRE L'INFESTATION DES RUCHES PAR DES ACARIENS ET RUCHE AMENAGEE A CET EFFET

**Priority:** FR20050012558 20051212

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
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**Probable Assignee:** MARTINEZ MICHEL CHRISTIAN

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**Assignee(s):** MICHEL CHRISTIAN MARTINEZ

**Inventor(s):(std):** MARTINEZ MICHEL CHRISTIAN

**Inventor(s):** MICHEL CHRISTIAN MARTINEZ

**Agent(s):** CHRISTIAN MARTINEZ

**International class (IPC 8–9):** A01K47/06 (Advanced/Invention); A01K47/00 (Core/Invention)

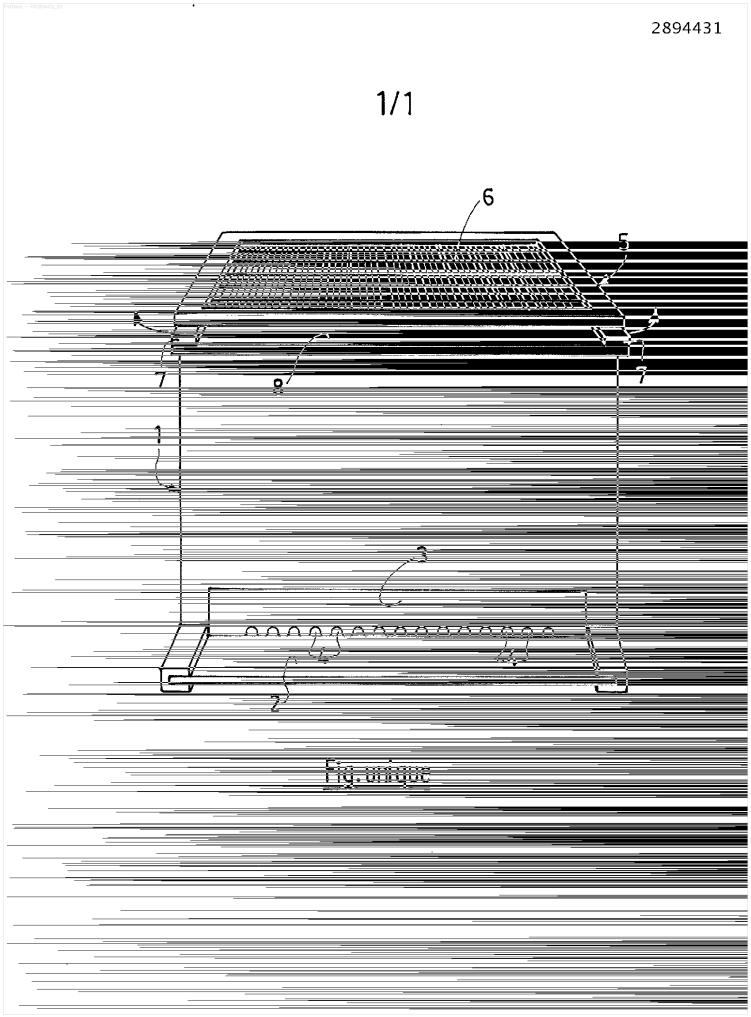
**CPC:** A01K47/06

**European class:** A01K47/06

Classification Explorer

**Cited documents:** US6579147 BA, US4512050 A, US3927431 A, AT406001 B,

**Abstract:**
The method involves provoking a top–down circulation of air inside a beehive through an air inlet in order to increase oxygenation of broods and to modify normal reigning conditions inside the beehive. The air inlet is formed of a queen excluder (6) and passages (8) and is disposed in an upper part of beehive between beehive body and a super. The body of the beehive is equipped with a detachable meshed base (2) at its upper part. A bar (3) is provided above the base and includes passages (4) for entry and exit of bees. An independent claim is also included for a beehive intended to fight against infestation by mites.



**12) Family number: 28090419** (US2004171649A) © PatBase

**Title:** NOVEL SUBSTITUTED 1H–DIHYDROPYRAZOLES, THEIR PREPARATION AND USE

**Priority:**

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**Family:**

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**Designated states:** AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ OM PH PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

**International class (IPC 8–9):** A01N A01N25/02 A01N25/08 A01N25/30 A01N37/38 A01N43/16 A01N43/34 A01N43/40 A01N43/54 A01N43/56 A01N43/58 A01N43/60 A01N43/653 A01N43/707 A01N43/76 A01N43/78 A01N43/80 A01N43/84 A01N43/86 A01N43/90 A01N47/12 A01N53/02 A01N53/06 A01N57/14 A01N57/28 A01N57/30 A01N59/20 A01N63/00 A01N63/02 A01N63/04 A01P15/00 A01P3/00 A01P5/00 A01P7/00 A01P7/02 A01P7/04 A61K31/415 A61K31/4152 A61K31/44 A61K31/4439 A61K31/5365 C07B35/06 C07B39/00 C07C241/00 C07C249/16 C07C251/76 C07D213/02 C07D213/77 C07D231/00 C07D231/06 C07D231/08 C07D231/10 C07D231/12 C07D231/14 C07D231/16 C07D231/22 C07D231/32 C07D231/44 C07D233/96 C07D237/02 C07D265/22 C07D401/00 C07D401/02 C07D401/04 C07D403/02 C07D403/04 C07D413/04 C07D413/14 C07F7/02 (Advanced/Invention);
A01N43/56 C07D231/06 C07D401/04 (Advanced/Non–invention);
A01N25/02 A01N43/48 A01N43/56 A01P7/04 C07D231/00 C07D401/00 C07D413/00 (Core/Invention);
A01N43/56 C07B35/06 C07B39/00 C07D231/06 C07D231/14 C07D231/16 C07D401/04 C07D413/04 (Core/Non–invention);
A01N C07D (Subclass/Invention)

**International class (IPC 1–7):** A01N A01N25/02 A01N25/08 A01N25/30 A01N37/46 A01N43/40 A01N43/56 A01N43/60 A01N43/78 A01N43/80 A01N43/86 A01N43/90 A01N47/12 A01N53/06 A01N53/56 A01N57/28 A01N63/00 A61K31/415 A61K31/4152 A61K31/4439 C0743/02 C0743/04 C07C249/16 C07C251/76 C07D213/77 C07D231/00 C07D231/06 C07D231/08 C07D231/12 C07D231/14 C07D231/16 C07D231/22 C07D231/44 C07D401/04 C07D403/04 C07D413/04 C07D413/14 C07D43/04

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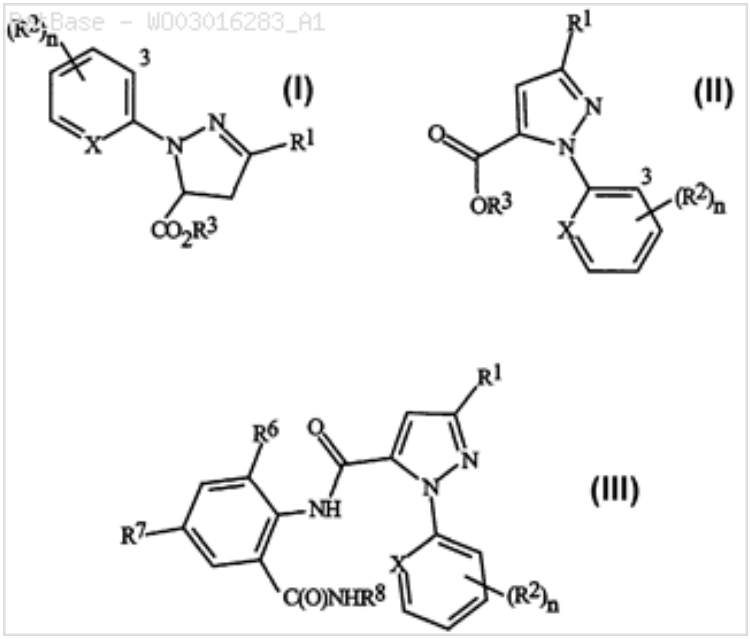
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**Abstract:**
Source: US2004171649A This invention provides compounds of Formula (I), methods for their preparation and use for preparing compounds of Formula (II) wherein R1, R2, R3, R5, R6, X and n are as defined in the disclosure. This invention also discloses preparation of compounds of Formula (III) wherein R1, R2, R7, R8, R9 and n are as defined in the disclosure. This invention also pertains to compounds of Formula 4 and 6 used to prepare compounds of Formula (I), wherein R1, R2, R5, X and n are as defined in the disclosure.



0) SU929031T – BEEHIVE

**13) Family number: 6517020** (SU929031T)

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**Priority:** SU19792812674 19790717

**Family:**

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**Probable Assignee:** GOLOVIN VALENTIN A

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**Assignee(s):** GOLOVIN VALENTIN A SU

**Inventor(s):**(std)**:** GOLOVIN VALENTIN A

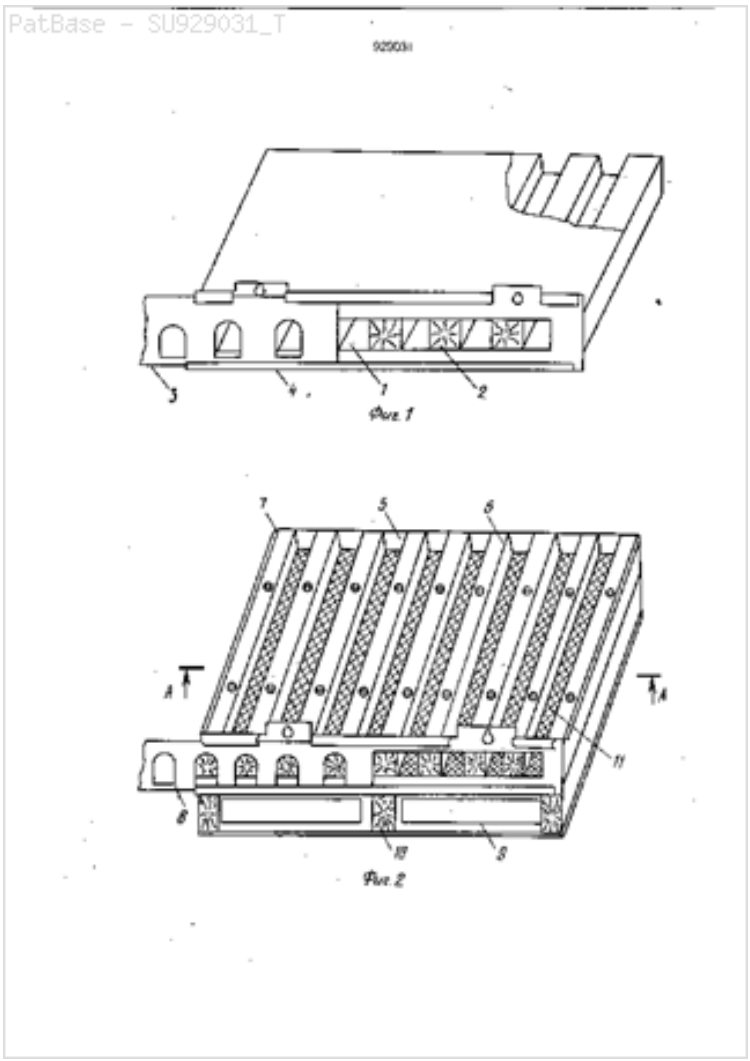
**Inventor(s):** GOLOVIN VALENTIN A SU

**International class (IPC 8–9):** A01K47/00 (Advanced/Invention); A01K47/00 (Core/Invention)

**International class (IPC 1–7):** A01K47/00

Classification Explorer

**Abstract:**
Source: SU929031T Invention relates to beekeeping. known hive comprising a housing notches, migratory board and apparatus for removing ticks with honeybees, and remove ticks ustroystvo.dl designed as a bottom–ul in additional tray which poured bulk drug treatment 1. Yet in a hive with honeybees udalenie.kleschey t vnutriulevym production method in which rolled in drug toxic effects although affects ticks, but at the same time, due to sublimation kantseragenov, detrimental effect on individuals bee colony as flying and non–flying, and food supplies bee colony necessary for its development (honey, pollen, etc.) are subject to contamination and poisoning carcinogens and subsequently adversely affect the development and bodily performance of the bee colony. object of the invention – providing opportunities vneulevoy handling bees. The goal is achieved in that in the hive, comprising a housing, notches, migratory board and apparatus for removing ticks honeybee mites removing device configured as a multi–gate valves provided with inlet and outlet chambers, which are installed on board the flight BPD, said outlet chamber is covered with a two–tiered transparent material passage channels in the upper ruse and screened in the lower grid cassettes ruse. Figure 10. 1 shows the input multi–carrying chamber; Fig. 2 – output multi–channel throughput of the camera; Fig. 3 – section A–A in Fig. 2. input multi–throughput camera size is 100 Bytes 13–15 h 150mm has six passageways section 1 10x 10 mm, which are passed to the SS hive all individuals arriving from outside of the bee colony, and, passageways are two rails, and from the input supplied 20 sliding gate valve 3 mounted on panel 4. sliding valve regulate the passage of drones in the hive. output multi–channel



throughput cell of E 150 B 13–15 h 170 mm has eight passageways 5, section 10x10 mm, separated by strips b, section 8xW mm shielded the entire periphery of cellophane or other transparent material 7. According kdmery output channels are passed all individuals departing from ul bee family, in connection with what for them it is possible to conduct the necessary observations. All the passageway of the chamber from the entrance protected by a sliding gate valve 8, which is similar to the latch is mounted on the inlet chamber. Sliding valve controlled intensity departure bees and drones of ul. In the lower compartment of the outlet chamber placed interchangeable cassette 9, designed to bookmark them in medicinal preparations and akarktsidov. Is blocked by the cassette between the pinion 10 and the upper side of the net 11 is covered with a mesh size of 2,5 x3, 0 mm, which divides the lower compartment from the entire periphery of the upper chamber. Both compartments are secured around the perimeter Schurupov. To provide convalescence bee family, regardless of its degree of Varroa infestation in the hive hive gap inserted first multichannel input bandwidth the camera so that its passageways 1 voschli in vnutrul and rear side panels 4 fits snugly against the wall there–tsevoy ul, closing a gap hives notch. Fastening inlet chamber to the wall is effected by means ul of available slots on the panel 4 and the screws screwed into the wall ul respectively to the slots on the panel 4. output multi–channel throughput camera mounted on the front wall ul adjacent the inlet chamber so that the inlets through channels 5 corresponded to the level of the gap hive the hive, and the panel tightly closed notches, as the camera body itself must lie on migratory ul board, fixed output chamber inlet chamber similar fastening. refill cassettes 9 therapeutic drugs and acaricides is performed after the bees have mastered t unilateral separation movement. proved that the varroa mite females mensche on bees, the higher the degree of infection of the brood. established that the female varroa mite is highly developed respiratory system truboktrahey adapted to an excess of carbon dioxide in the sealed cell and high aeration flying a bee. However, to drive away the female mite Varroa bee with a body separate from the combs, rather smell phenothiazine and other acaricide having a pungent odor, like ticks begin to leave their prey. All these and other biological factors summarized and laid the basis for the invention. Technical and economic advantages of the invention consist in the fact that as a result of its use is achieved all one–way traffic system flight individuals bee family, contributing the implementation of multiple therapeutic and prophylactic treatments each year olds throughout the summer, on the basis of what is achieved by the complete removal of parasitic bees and drones flying x female mite Varroa while eliminating the possibility of repeated and follow them ytsekladok, without causing any harm to the bee colony. Nova processing system vneulevoy flying bees and drones, regardless of their degree of Varroa infestation, expands the range of medicinal

substances, preparations and acaricides for diagnosis, prevention and treatment of varroatosis. claims Hive comprising a housing notches, migratory board and apparatus for removing ticks pche.t honey, characterized in that, in order to allow processing vneulevoy bee mites removing device configured as valves equipped with multichannel inlet and outlet chambers which are installed on migratory board, and the output of the two–tiered Ka.viepa made from transparent material covered in the upper bushing kanala.mi ruse and screened in the lower grid cassettes ruse. 5 Sources infor.matsii, received into account in the examination 1. USSR Author's Certificate number 665868, cl. A 01 K 47/00, 1977. about Figure 2. Fig.

0) GB2265811A – TREATMENT OF THE VARROA MITE IN HONEYBEE HIVES....

**14) Family number: 7210566** (GB2265811A)

© PatBase

**Title:** Treatment of the varroa mite in honeybee hives.

**Priority:** GB19920007878 19920410

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| GB2265811 A1 | 19931013 | GB19920007878 | 19920410 |
| GB2265811 B2 | 19960522 | GB19920007878 | 19920410 |
| GB9207878 A0 | 19920527 | GB19920007878 | 19920410 |

**Probable Assignee:** LOO DAVID W

**Assignee(s):**(std)**:** LOO DAVID W ; LOO DAVID WILSON

**Assignee(s):** DAVID WILSON LOO

**Inventor(s):**(std)**:** LOO DAVID WILSON

**Inventor(s):** DAVID WILSON LOO

**International class** (IPC 8–9)**:** A01K47/02 A01K49/00 A01K51/00 (Advanced/Invention); A01K47/00 A01K49/00 A01K51/00 (Core/Invention)

**International class** (IPC 1–7)**:** A01K47/02 A01K51/00

**CPC:** A01K47/02 A01K49/00 A01K51/00

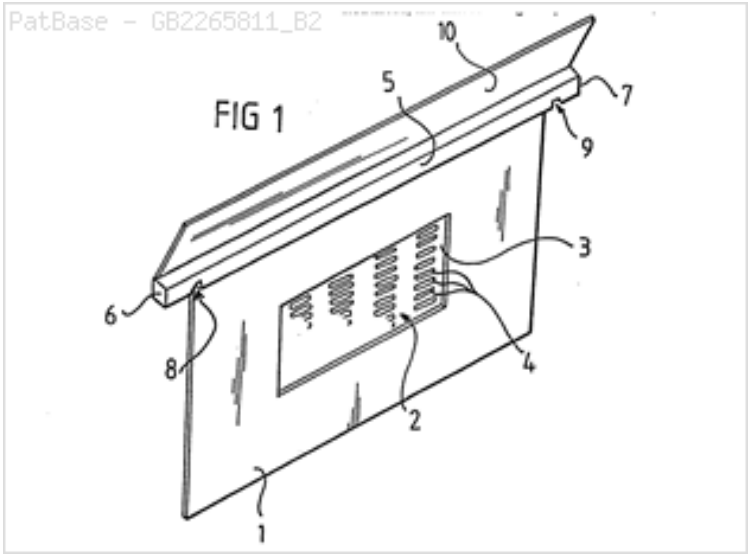
**European class:** A01K47/02 A01K49/00 A01K51/00

Classification Explorer

**Cited documents:** EP0191704, DD294164,

**Forward Citations:** US7390238, EP1844651, AT1168,

**Abstract:**
Source: GB2265811A A nonchemical method of treating an infestation of varroa mite in a beehive involves isolating one of the frames together with the queen from the remainder of the frames using a screen 1 which is suspended between a pair of adjacent frames by a suspension rail 5. A transparent flap 10 provides a top cover for the isolated compartment. Suitably sized apertures 4 are provided in the screen 1 through which the worker honeybees can pass freely. After a period of isolation, when the honeybee larvae have hatched from the remainder of the frames, the isolated frame is removed from the hive together with the developing honeybee larvae and varroa larvae, and after returning the queen to the hive, the removed frame is sterilised to destroy the varroa mite larvae.



0) US6468129B – BEEHIVE BOTTOM BOARD FOR REDUCING PARASITE INFE...

**15) Family number: 24038935** (US6468129B)

© PatBase

**Title:** Beehive bottom board for reducing parasite infestation

**Priority:** US20000517647 20000303

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| US6468129 BA | 20021022 | US20000517647 | 20000303 |

**Probable Assignee:** GRIFFITH GRANVILLE

**Assignee(s):**(std)**:** GRIFFITH GRANVILLE

**Inventor(s):**(std)**:** GRIFFITH GRANVILLE

**International class** (IPC 8–9)**:** A01K51/00 (Advanced/Invention); A01K51/00 (Core/Invention)

**International class** (IPC 1–7)**:** A01K47/06

**CPC:** A01K51/00

**European class:** A01K51/00

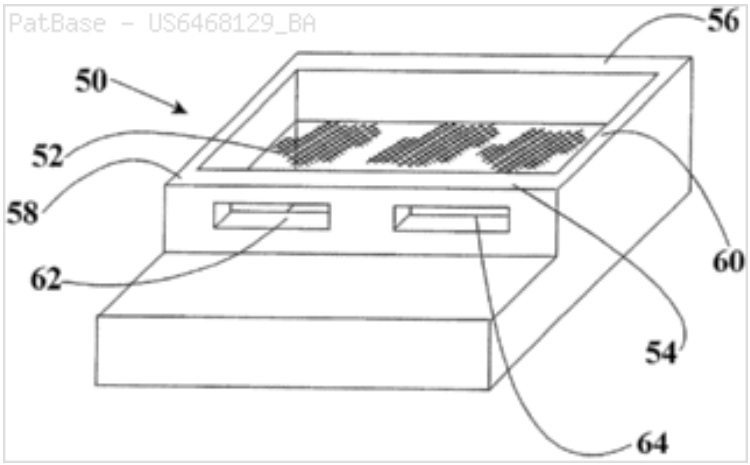
**US class:** 449/20 449/3

Classification Explorer

**Cited documents:** US5737870 A, US5162014 A, US5069651 A, US4965287 A, US4876265 A, US4867731 A, US4739531 A, US4682380 A, US4299816 A, SU1289434 T, FR2612738 A1, DE3643872 A1,

**Forward Citations:** WO15032753, WO14107664, WO12170420, WO08067602, USD659293, US9545110, US7390238, US7309274, US6702645, US2016227745, US2013019518, US2010107472, US2008280528, US2007224913, US2006141904, US2005064788, US2004077291, KR100977605, ES2246686, EP2745682, EP1835801,

**Abstract:**
Source: US6468129B A beehive having a bottom board for separating mites from bees working in the beehive. A permanently installed screen in the bottom board separates mites from the bees, and a sticky sub–board below the screen traps the mites to prevent re–infestation. Notched members around the perimeter of the sticky sub–board prevent bees from climbing up into the beehive and prevent re–attachment. The sticky sub–board is accessible from the rear of the beehive so that the entry and exit of the bees into and out of the beehive are not disturbed.



**16) Family number: 3319802** (US5227162A) © PatBase

**Title:** ACARICIDAL COMPOSITION AND USE THEREOF IN DISINFESTING TREATMENTS

**Priority:** EP19900907001 19900509 IT19890067369 19890519 US19910635102 19910107 WO1990EP00744 19900509 WO1990EP00744 19900509

**Family:**

| Publication number | Publication date | Application number | Application date |
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| DE69007931 T2 | 19940915 | DE19906007931T | 19900509 |
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| EP0426802 B1 | 19940406 | EP19900907001 | 19900509 |
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| IT8967369 A0 | 19890519 | IT19890067369 | 19890519 |
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| PT94073 B | 19961231 | PT19900094073 | 19900517 |
| US5227162 A | 19930713 | US19910635102 | 19910107 |
| WO9014012 A1 | 19901129 | WO1990EP00744 | 19900509 |

**Probable Assignee:** FERRARI S N C DI CARLO E MARIO

**Assignee(s):**(std)**:** FERRARI S N C DI CARLO E MARIO ; FERRARI S N C OFF ; FERRARI SNC DI CARLO E MARIO F

**Assignee(s):** FERRARI SNC DI CARLO E MARIO FERRARI AND C OFF ; FERRARI SNC DI CARLO E MARIO FERRARI AND CO OFF ; FERRARI SNC DI CARLO E MARIO OFF ; FERRARI SNC DI CARLO E MARIO VIA GOITO NO OFF ; OFFICINA FERRARI S N C DI CARLO E MARIO FERRARI AM ; OFFICINA FERRARI S N C ; OFFICINA FERRARI S N C DI CARLO E MARIO FERRARI E ; OFFICINA FERRARI SNC DI CARLO E MARIO FERRARI AND ; OFFICINA FERRARI S N C DI CARLO E MARIO FERRARI A ; OFFICINA FERRARI S N C DI CARLO E MARIO FERRARI AND C ; OFFICINA FERRARI S N C DI CARLO E MARIO FERRARI AND C NICHELINO IT ; OFFICINA FERRARI S N C DI CARLO E MARIO FERRARI E C ; OFFICINA FERRARI S N C DI CARLO E MARIO FERRARI and ; OFFICINA FERRARI SNC ; OFFICINE FERRARI S N C DI CARLO E MARIO FERRARI AND C ; OFFICINA FERRARI SNC DI CARLO E MARIO FERRARI AND C ; OFFICINA FERRARI SNC DI CARLO E MARIO FERRARI AND CO ; OFFICINE FERRARI S N C DI CARLO E MARIO FERRARI AND CO ; OFFICINA FERRARI SNC DI CARLO E MARIO FERRARI E C ; OFFICINA FERRARI SNCDI CARLO E MARIO FERRARI AND CO

**Inventor(s):**(std)**:** CARLO FERRARI ; FERRARI CARLO

**Inventor(s):** FERRARI CARLO I 10024 MONCALIERI IT

**Designated states:** AT AU BE BG BR CH DE DK ES FR GB HU IT JP LI LU MC NL RO SE SU US

**International class** (IPC 8–9)**:** A01N31/02 A01N59/02 A01N65/00 A01N65/34 A01N65/38 A01N65/42 A61K36/81 A61K36/8962 (Advanced/Invention); A01N65/34 A01N65/38 A01N65/42 (Advanced/Non–invention); A01N65/00 A01N65/34 A01N65/38 A01N65/42 A61K36/185 A61K36/88 (Core/Invention)

**International class** (IPC 1–7)**:** A01N31/02 A01N59/02 A01N65/00 A61K33/04 A61K35/78

**CPC:** Y10S424/10 Y10S514/919 A01N59/02 A01N65/08 A01N65/42 A01N65/00 A01N65/34 A01N65/38

**European class:** A01N65/00 A01N65/34 A01N65/38 A01N65/42

**US class:** 424/195.1 424/703 424/754 424/760 424/DIG.1 424/DIG.10 514/919

Classification Explorer

**Cited documents:** FR2565782 A3, DE1767616 A1, DE1767616 A, CH193276 A,

**Forward Citations:** WO9966798, WO14107664, WO12170420, WO04084645, WO04084645, US9545110, US8709763, US8673596, US8414934, US8293258, US8153146, US8142820, US7767234, US7597912, US6277371, US6231865, US5599803, US5525597, US5466459, US2011159119, US2010317742, US2010087121, US2010024071, US2009104288, US2007232188, US2005220914, US2005043404, RU2496310, EP0600080, EA11631, EA011631,

**Abstract:**
Source: US5227162A PCT No. PCT/EP90/00744 Sec. 371 Date Jan. 7, 1991 Sec. 102(e) Date Jan. 7, 1991 PCT Filed May 9, 1990 PCT Pub. No. WO90/14012 PCT Pub. Date Nov. 29, 1990.The invention relates to a composition that is effective in fighting infestations from mites, particularly against the Varroa Jacobsoni acarus, a honeybees parasite. The composition is constituted by a mixture of elementary sulphur powder, garlic bulbs that have been crushed or reduced to a pulp, ethanol, and in case, dried pepper powder. In a preferred composition the above components are present in weight ratios of 30:30:30:10, respectively. The invention further includes the use of the composition as an acaricidal agent in treatments of disinfestation, as well as the preventive use thereof for prophylaxis purposes.

0) US2007224913A – BEEHIVE COMBINATION BOTTOM BOARD FOR DETECTION,...

**17) Family number: 37226988** (US2007224913A) © PatBase

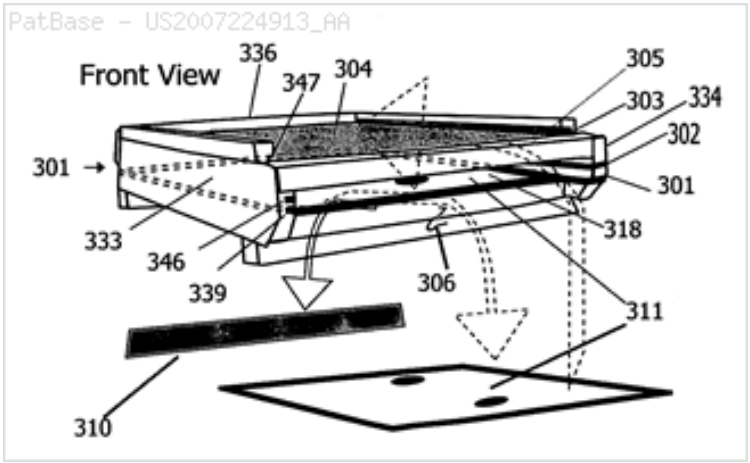
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|---|---|
| **Title:** | BEEHIVE COMBINATION BOTTOM BOARD FOR DETECTION, MONITORING AND/OR REDUCTION OF PARASITE INFESTATIONS |
| **Priority:** | US20060390690 20060325 |

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| US2007224913 AA | 20070927 | US20060390690 | 20060325 |

| | |
|---|---|
| **Probable Assignee:** | BRISSON JANET E |
| **Assignee(s):**(std): | BRISSON JANET E ; BRISSON MICHAEL A |
| **Inventor(s):**(std): | BRISSON JANET E ; BRISSON MICHAEL A |
| **Inventor(s):** | BRISSON MICHAEL ; BRISSON JANET |
| **Agent(s):** | JANET E BRISSON |
| **International class (IPC 8–9):** | A01K47/00 (Advanced/Invention); A01K47/00 (Core/Invention) |
| **CPC:** | A01K51/00 |
| **European class:** | A01K51/00 |
| **US class:** | 449/3 |
| Classification Explorer | |
| **Cited documents:** | US6468129 BA, US4867731 A, US4291424 A, |
| **Forward Citations:** | USD659293, US9526233, US9357752, US9232774, US2016227745, US2015123801, US2014273733, US2014199914, US2013316614, US2012077412, US2011306272, RU2483532, KR101203167, EP2880974, |

**Abstract:**
Source: US2007224913A An apparatus and method for observing, trapping, reducing and controlling mites which infect and kill honey bees in a beehive. A screen, preferably permanently installed in the bottom board, separates mites from the bees, and sub–board below the screen traps the mites to prevent re–infestation or allows detection and observation. Large air space between the sub–board and screen and the use of a sticky substance on the sub–board prevent bees from climbing up into the beehive and prevent re–attachment and facilitates monitoring and the use of inert powder such as powder sugar. The sub–board is accessible from the rear of the beehive so that the entry and exit of the bees into and out of the beehive are not disturbed and also from the front when rear access is not available allowing this board to have a double use.



**18) Family number: 30936165** (US2004268425A) © PatBase

**Title:** SOLUBLE HYALURONIDASE GLYCOPROTEIN (SHASEGP), PROCESS FOR PREPARING THE SAME, USES AND PHARMACEUTICAL COMPOSITIONS COMPRISING THEREOF

**Priority:**

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|---|---|---|---|---|---|
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| EP20060736105 | 20060223 | EP20100183410 | 20040305 | CN200480011489 | 20040305 |
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**Family:**

| Publication number | Publication date | Application number | Application date |
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TYLER M DYLAN ; KUNDU ANIRBAN

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**Agent(s):** PIZZEYS; PIZZEYS PATENT AND TRADE MARK ATTORNEYS PTY LTD; OSLER HOSKIN AND HARCOURT LLP; MBM INTELLECTUAL PROPERTY LAW LLP; HOFFMANN EITLE PATENT U RECHTSANWAELTE PARTMBB; BALDOCK SHARON CLAIRE; HOFFMANN EITLE; BOULT WADE TENNANT; TAORMINO JOSEPH PAUL; UNGRIA JAVIER; REINHOLD COHN AND PARTNERS; SHIMIZU HATSUSHI; OSAKABE SUGURU; MARKS AND CLERK SINGAPORE LLP; DLA PIPER RUDNICK GRAY CARY US LLP; K AND L GATES LLP; STEPHANIE; MCKENNA LONG AND ALDRIDGE LLP; DENTONS US LLP

**Designated states:** AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LC LI LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MW MX MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

**International class (IPC 8–9):** A01K67/027 A01K67/033 A01N37/18 A01N43/04 A61K31/00 A61K31/137 A61K31/445 A61K31/7028 A61K31/7088 A61K33/24 A61K35/12 A61K35/76 A61K35/768 A61K38/00 A61K38/14 A61K38/17 A61K38/19 A61K38/20 A61K38/21 A61K38/28 A61K38/43 A61K38/46 A61K38/47 A61K38/55 A61K39/02 A61K39/05 A61K39/08 A61K39/09 A61K39/13 A61K39/145 A61K39/165 A61K39/20 A61K39/25 A61K39/29 A61K39/385 A61K39/395 A61K45/00 A61K45/06 A61K47/02 A61K47/04 A61K47/12 A61K47/14 A61K47/18 A61K47/20 A61K47/22 A61K47/26 A61K47/30 A61K47/34 A61K47/36 A61K47/38 A61K47/42 A61K47/44 A61K47/46 A61K47/48 A61K48/00 A61K49/00 A61K51/10 A61K8/66 A61K9/00 A61K9/107 A61K9/12 A61K9/127 A61K9/14 A61K9/19 A61K9/20 A61K9/34 A61K9/38 A61K9/46 A61K9/48 A61M5/178 A61P17/00 A61P17/02 A61P19/00 A61P19/02 A61P25/00 A61P25/16 A61P25/24 A61P27/02 A61P27/12 A61P29/00 A61P3/00 A61P3/10 A61P31/00 A61P31/04 A61P31/06 A61P31/08 A61P31/10 A61P31/12 A61P33/00 A61P33/02 A61P33/04 A61P33/06 A61P35/00 A61P43/00 A61P7/02 A61P7/04 A61P7/10 A61P9/00 A61P9/04 A61P9/10 A61P9/12 A61P9/14 A61Q19/06 C07H21/02 C07H21/04 C07K1/00 C07K14/00 C07K14/435 C07K14/47 C07K14/705 C07K16/00 C07K16/40 C08B37/00 C12N C12N1/15 C12N1/19 C12N1/20 C12N1/21 C12N11/08 C12N11/10 C12N15/00 C12N15/09 C12N15/11 C12N15/56 C12N15/63 C12N15/861 C12N5/00 C12N5/04 C12N5/06 C12N5/075 C12N5/10 C12N5/16 C12N7/00 C12N9/00 C12N9/24 C12N9/26 C12N9/96 C12P21/02 C12P21/06 (Advanced/Invention);
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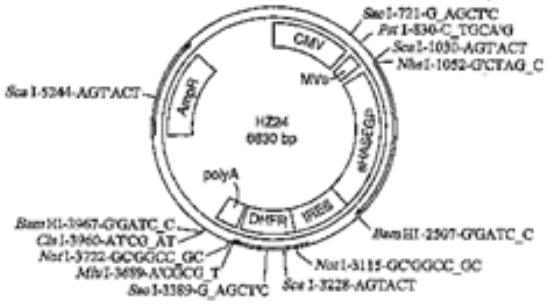
**Abstract:**
Source: US2004268425A The invention relates to the discovery of novel soluble neutral active Hyaluronidase Glycoproteins (sHASEGP's), methods of manufacture, and their use to facilitate administration of other molecules or to alleviate glycosaminoglycan associated pathologies. Minimally active polypeptide domains of the soluble, neutral active sHASEGP domains are described that include asparagine−linked sugar moieties required for a functional neutral active hyaluronidase domain. Included are modified amino−terminal leader peptides that enhance secretion of sHASEGP. The invention further comprises sialated and pegylated forms of a recombinant sHASEGP to enhance stability and serum pharmacokinetics over naturally occurring slaughterhouse enzymes. Further described are suitable formulations of a substantially purified recombinant sHASEGP glycoprotein derived from a eukaryotic cell that generate the proper glycosylation required for its optimal activity.
**FDA Data:**

| Application number | Active ingredient | Proprietary name | Applicant | Date of approval |
|---|---|---|---|---|
| 021859 | HYALURONIDASE RECOMBINANT HUMAN | HYLENEX RECOMBINANT | HALOZYME THERAP | Dec 2, 2005 |

PatBase - WO06091871_A1








VECTOR MAP of sHASBGP VECTOR HZ24

**FIG. 1**

**19) Family number: 29255778** (US6024964A) © PatBase

**Title:** MEMBRANE ANCHOR/ACTIVE COMPOUND CONJUGATE, ITS PREPARATION AND ITS USES

**Priority:**

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**Probable Assignee:** EMC MICROCOLLECTIONS GMBH

**Assignee(s):**(std)**:** AVENTIS PHARMA DEUTSCHLAND GMBH ; AVENTIS PHARMA GMBH ; HOECHST AG ; HOECHST AKTIENGESELLSCHAFT ; TIMOTHY GERARD VAUGHAN

**Assignee(s):** KHEKHST AG ; WIESMULLER KARL HEINZ ; HESS GUNTER ; JUNG GUNTHER ; HOECHST AG 65929 FRANKFURT DE ; SANOFI AVENTIS DEUTSCHLAND GMBH ; HEKISUTO AG ; EMC MICROCOLLECTIONS GMBH ; AVENTIS PHARMA DEUTSCHLAND GMBH (AVENTIS PHARMA) ; AVENTIS PHARMA DEUTSCHLAND GMBH AVENTIS PHARMA ; AVENTIS PHARMA DEUTSCHLAND GMBH INDUSTRIEPARK

**Inventor(s):**(std)**:**

BEKER GERHARD ; BESSLEER WOLFGANG ; BESSLER WOLFGANG ; BESSLER WOLFGANG PROF DR ; BECKER GERHARD ; BECKER GERHARD DR ; BUEHRING HANS JOERG ; BUEHRING HANS JOERG DR ; GEERUHARUTO BETSUKAA ; GERHARD BECKER ; GERKHARD BEKER ; GIYUNTAA HESU ; GIYUNTAA YUNGU ; GUENTER HESS ; GUENTER JUNG ; GUENTHER JUNG ; GUNTER HESS ; GUNTHER JUNG ; GYUNTER KHESS ; GYUNTER YUNG ; HANS GEORG RAMMENSEE ; HANS JOERG BUHRING ; HANS JORG BUHRING ; HANSU IERUKU BIYUURINGU ; HANSUUGEORUKU RAMENZEE ; HESS GUENTER ; HESS GUENTER DR DR ; HESS GUNTER ; HESS GUNTER DR DR ; IERUKU METSUGAA ; JERG METSGER ; JOERG METZGER ; JORG METZGER ; JUNG GUENTER ; JUNG GUENTHER ; JUNG GUENTHER DR ; JUNG GUENTHER PROF DR ; BUHRING HANS JOERG ; BUHRING HANS JORG ; BUHRING HANS JORG DR ; BUORUFUGANGU BESURAA ; DERES KARL ; JUNG GUNTHER ; JUNG GUNTHER PROF DR ; KAARU HAINTSU BUIISUMIYURAA ; KAARUUHAINTSU BUIISUMIYURAA ; KARL HEINZ WIESMUELLER ; KARL HEINZ WIESMULLER ; KARL KHAJNTS VISMYULLER ; KHANS IERG BYURING ; METZGER JOERG ; METZGER JORG ; METZGER WORG ; RAMMENSEE HANS GEORG ; RAMMENSEE HANS GEORG DR ; VEZLER WOLFGANG ; VISMULER KARL HEINZ ; VOLFGANG BESLER ; VURING HANZ WORG ; WIESMUELLER KARL HEINZ ; SCHILD HANSJOERG ; WIESMULLER KARL HEINZ ; WOLFGANG BESSLEER ; WOLFGANG BESSLER

**Inventor(s):** VERZICHT DES ERFINDERS AUF NENNUNG ; WIESMUELLER KARL HEINZ 7400 TUEBINGEN DE ; WIESMUELLER KARL HEINZ D 7400 TUEBINGEN DE ; WIESMUELLER KARL HEINZ W 7400 TUEBINGEN DE ; RAMMENSEE HANS GEORG W 7400 TUEBINGEN DE ; METZGER JOERG D 7400 TUEBINGEN DE ; KAARUUHAINTSU UIISUMYURAA ; DERES KARL W 7400 TUEBINGEN DE ; JUNG GUENTHER PROF DR D 7400 TUEBINGEN DE ; JUNG GUENTHER W 7400 TUEBINGEN DE ; HESS GUENTER DR DR D 4500 KOBLENZ DE ; HESS GUENTER DR DR HABIL ; GYUNTAA HESU ; GYUNTAA YUNGU ; BUEHRING HANS JOERG DR D 7400 TUEBINGEN DE ; BECKER GERHARD DR D 7404 OFTERDINGEN DE ; BESSLER WOLFGANG PROF DR D 7401 HAGELLOCH DE

**Agent(s):** WATERMARK PATENT AND TRADE MARKS ATTORNEYS; WATERMARK INTELLECTUAL PROPERTY PTY LTD; BERESKIN AND PARR

**Designated states:** AT BE CH DE DK ES FR GB GR IT LI LU NL SE

**International class (IPC 8–9):** A23K1/16 A61K38/00 A61K38/02 A61K38/10 A61K39/00 A61K39/015 A61K39/02 A61K39/10 A61K39/12 A61K39/135 A61K39/145 A61K39/21 A61K39/235 A61K39/29 A61K39/385 A61K39/39 A61K47/00 A61K47/48 A61K9/10 A61K9/127 A61P35/00 A61P37/00 A61P37/04 B01J20/32 C07C313/00 C07C323/59 C07C67/00 C07K1/06 C07K1/113 C07K14/00 C07K14/09 C07K14/195 C07K14/41 C07K14/44 C07K14/775 C07K16/00 C07K16/28 C07K17/00 C07K17/02 C07K19/00 C07K4/00 C07K5/00 C07K5/06 C07K5/08 C07K5/083 C07K7/00 C07K7/06 C07K7/08 C12N15/00 C12N15/02 C12P21/00 C12P21/08 G01N33/532 G01N33/58 (Advanced/Invention);
A23K1/16 A61K38/00 A61K39/00 A61K39/385 A61K39/39 A61K47/00 A61K9/10 A61P37/00 C07C313/00 C07C67/00 C07K14/00 C07K16/00 C07K17/00 C07K19/00 C07K4/00 C12N15/00 C12P21/00 C12P21/08 G01N33/58 (Advanced/Non–invention);
A23K1/16 A61K38/00 A61K38/02 A61K38/10 A61K39/002 A61K39/02 A61K39/10 A61K39/12 A61K39/125 A61K39/145 A61K39/21 A61K39/235 A61K39/29 A61K39/385 A61K39/39 A61K47/00 A61K47/48 A61K9/10 A61K9/127 A61P35/00 A61P37/00 B01J20/30 C07C313/00 C07C323/00 C07C67/00 C07K1/00 C07K14/00 C07K14/005 C07K14/195 C07K14/41 C07K14/435 C07K16/00 C07K16/18 C07K17/00 C07K19/00 C07K4/00 C07K5/00 C07K7/00 C12N15/00 C12N15/02 C12P21/00 C12P21/08 G01N33/532 G01N33/58 (Core/Invention);
A61K38/00 A61K39/00 (Core/Non–invention);
A23K A23L A61K B01J C07C C07K C12N (Subclass/Invention)

**International class (IPC 1–7):** A23K1/00 A23K1/16 A23L1/00 A23L1/30 A61K31/195 A61K35/00 A61K35/76 A61K37/02 A61K37/10 A61K37/36 A61K37/66 A61K38/02 A61K39/00 A61K39/002 A61K39/015 A61K39/02 A61K39/10 A61K39/12 A61K39/135 A61K39/145 A61K39/165 A61K39/21 A61K39/235 A61K39/29 A61K39/385 A61K39/39 A61K39/395 A61K45/02 A61K47/00 A61K47/48 A61K9/10 B01D15/08 B01J20/32 B01J47/00 C07C149/243 C07C233/31 C07C233/36 C07C323/25 C07K1/04 C07K1/06 C07K1/08 C07K13/00 C07K14/09 C07K14/555 C07K14/71 C07K15/00 C07K15/04 C07K15/06 C07K15/12 C07K15/16 C07K15/18 C07K17/00 C07K17/02 C07K17/06 C07K17/08 C07K3/20 C07K4/00 C07K5/00 C07K5/06 C07K5/08 C07K5/093 C07K5/12 C07K7/00 C07K7/06 C07K7/08 C07K7/10 C07K99/00 C12N1/00 C12N15/00 C12N15/02 C12N5/00 C12P21/00 G01N33/532 G01N33/58

**CPC:** C12N2770/32122 C07K2317/34 C07K16/2863 C07K7/06 A61K39/00 A61K39/385 A61K47/48792 C07K5/081 C07K14/005 C12N2760/16122 A61K2039/6018 A61K2039/6068 A61K9/1272 A61K38/00 A61K47/48038 C07K5/00 C07K17/02 G01N33/532 B01J20/3212 B01J20/3219 B01J20/3274 B01J20/32

**European class:** A61K39/385 A61K47/48H4C A61K47/48W6 A61K47/48W6D A61K9/127B2 B01J20/32 C07K14/005 C07K16/28G C07K17/02 C07K5/00 C07K5/08A1F C07K7/06 G01N33/532 K61K38/00 K61K39/00 K61K39/60L K61K39/60P20 M12N760/16122 M12N770/32122

**US class:** 424/208.1 424/234.1 424/265.1 424/277.1

Classification Explorer

**Cited documents:** WO8907448 A1, WO8902277 A2, US5017688 A, US4769237 A, US4666886 A, US4639512 A, US4605512 A, US4554101 A, US4459286 A, US4439425 A, US4401658 A, US4140763 A, JPS60500673, JPS59500719, JP62063600 A2, JP61292398 A2, JP60500673 T2, JP59500719 T2, JP58213723 A2, JP58049321 A2, EP0338437 A2, EP0270295 A2, EP0210412 A2, EP0204480 A2, EP0203676 A2, EP0114787 A2, EP0109688 A2, EP0014815 A2, EP0001330 A1, EP0000330 A1, EP0000300 A1, DE3546150 A1, CA1139305 A1, AU5894386 A1, AU573574 B2, AU3449784 A1, AU2374584 A1,

**Forward Citations:** WO9749425, WO9615810, WO9506484, WO9504278, WO9118630, WO9011297, WO15163488, WO13051936, WO12146364, WO11012240, WO0235242, WO0118031, WO0118031, WO0101140, WO0011026, WO0011026, US9504742, US9381225, US9365506, US9314521, US9186400, US9006183, US8986700, US8883174, US8637305, US8486567, US8372393, US8367067, US8252916, US7833532, US7744898, US7569225, US7413538, US7368118, US7364729, US7232682, US7196063, US6994851, US6977074, US6919203, US6861234, US6607727, US6602852, US6419931, US6322789, US6074650, US6024964, US5932224, US5780036, US5760176, US5700910, US5506267, US5478809, US5478808, US2015274780, US2014323390, US2011274988, US2011200632, US2010092500, US2008299140, US2008233143, US2008152703, US2008076476, US2007160631, NL2007536, KR20160147960, JP63107742, JP6099210, JP5848748, JP5271276, JP4754136, JP2014530808, JP2013527142, JP2006410, FR2816060, FR2727117, EP3072901, EP3069730, EP2873423, EP2848937, EP2679596, EP2586461, EP2568289, EP2407178, EP2314630, EP2301972, EP1722227, EP1190255, EP1153050, EP1062229, EP0912195, EP0792167, EP0547681, EP0541335, EP0431327, EP0338437, DE102011018499, DE102009034779, CN104244976, AU732085, AU619443, AU2012319265, AU2006209809,

**Abstract:**
Source: US6024964A According to certain embodiments, the invention relates to a method of producing antibodies employing an immunoconjugate produced by conjugating at least one membrane–anchoring compound with at least one partial sequence of a viral, bacterial, or protoral protein. The immunoconjugate has the advantage that it can be stored for a very long time even without cooling. According to certain embodiments, the invention relates to an immunoconjugate for the specific induction of cytotoxic T–lymphocytes which comprises a conjugate from at least one membrane anchor compound and a protein, containing at least one killer T–cell epitope, of a virus, a bacterium, a parasite or a tumor antigen, or at least one partial sequence containing at least one killer T–cell epitope of a viral, bacterial or parasite protein or of a tumor antigen.

PatBase - US6074650_A






*FIG. 1*

0) DE3308017C1 – METHOD AND APPARATUS FOR CONTROLLING MITE INFES...

**20) Family number: 3348469** (DE3308017C1) © PatBase

**Title:** Method and apparatus for controlling mite infestation of bee colonies

**Priority:** DE19833308017 19830307

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| DE3308017 C1 | 19840329 | DE19833308017 | 19830307 |

**Probable Assignee:** FISCHER RICHARD

**Assignee(s):**(std)**:** FISCHER RICHARD

**Assignee(s):** FISCHER RICHARD 6148 HEPPENHEIM DE

**Inventor(s):**(std)**:** FISCHER RICHARD

**Inventor(s):** FISCHER RICHARD 6148 HEPPENHEIM DE

**International class (IPC 8–9):** A01K51/00 (Advanced/Invention); A01K51/00 (Core/Invention)

**International class (IPC 1–7):** A01K51/00

**CPC:** A01K51/00

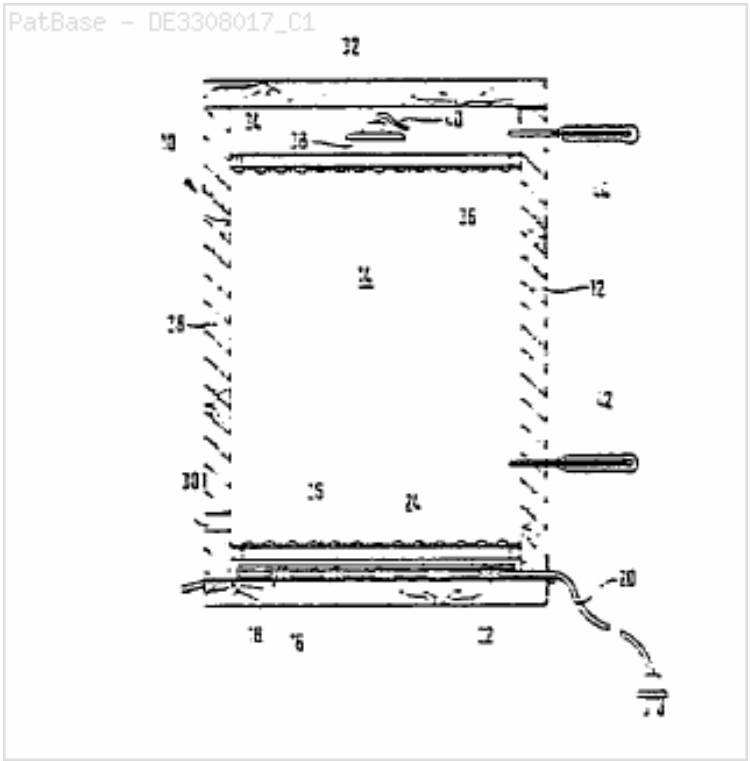
**European class:** A01K51/00

Classification Explorer

**Cited documents:** FR1274700, FR1026204,

**Forward Citations:** WO9708954, US6620025, US6475061, US6096350, EP0221488, EP0218162, DE102006021144, DE10054048, DE10028573, DE10028573,

**Abstract:**
Source: DE3308017C1 To control mites which parasitise bees, especially varroa mites, an open reservoir of formic acid is placed in the hive of the infested bee colony and vaporised by heating the vicinity of the formic acid reservoir. The vaporisation of formic acid is continued until all the mites parasitising the bees in the colony and the brood which is developing where appropriate have been killed. The apparatus for carrying out the method has a heating plate (18) whose heating effect can be controlled and which is located in the hive (10) of the colony.



0) DE3417674A1 – BEESWAX PREPARATIONS FOR CONTROLLING PARASITES ...

**21) Family number: 3749378** (DE3417674A1) © PatBase

**Title:** Beeswax preparations for controlling parasites of honey bees

**Priority:** DE19843417674 19840512

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| DE3417674 A1 | 19851114 | DE19843417674 | 19840512 |

**Probable Assignee:** POLYTECHNISCHE GES E V

**Assignee(s):**(std)**:** POLYTECHNISCHE GES E V

**Assignee(s):** POLYTECHNISCHE GESELLSCHAFT E V

**Inventor(s):**(std)**:** KOENIGER NIKOLAUS PROF DR

**International class** (IPC 8–9)**:** A01K47/04 A01K51/00 A01N25/08 A01N37/36 (Advanced/Invention)

**International class** (IPC 1–7)**:** A01K47/06 A01K51/00 A01N25/08 A01N25/10

**CPC:** A01K47/04 A01K51/00 A01N25/08 A01N37/36

**European class:** A01K47/04 A01K51/00 A01N25/08 A01N37/36

Classification Explorer

**Cited documents:** FR1605451 A, DE3225493 A1, DE1963448 A1, DE1937634 A1, CH428311 A,

**Forward Citations:** WO13001116, WO12114136, ES2395675, EP1013166, DE102006029829,

**Abstract:**
Source: DE3417674A1 Bee colonies which are infested by the mite Varroa jacobsoni are inevitably killed unless the keeper takes measures. The mortality rate of Varroa jacobsoni which can be achieved by controlling Varroa jacobsoni in the conventional fashion by spraying, misting, dusting or fumigating with acaricides in the beehive is 80–90 percent, but, and this is decisive for the incompleteness of the disinfection – this does not affect the Varroa progeny in the sealed cells containing the developing bees. According to the invention, the acaricide is incorporated into the central wall of the honeycomb, a thin beeswax sheet which is imprinted with a cell pattern and which is added to by the bees to make the complete honeycomb. Varroa infestation can now be eradicated completely; this applies in particular to the Varroa progeny in the sealed cells. When central walls are used which contain the acaricide isopropyl 4,4'–dibromobenzilate (bromopropylate), a bee colony which is parasitised by Varroa jacobsoni will be completely free from mites after 8 weeks.

0) DE102013014900A1 – DIE ERFINDUNG BETRIFFT EINE VORRICHTUNG ZUR HER...

**22) Family number: 58691549** (DE102013014900A1) © PatBase

**Title:** DIE ERFINDUNG BETRIFFT EINE VORRICHTUNG ZUR HERSTELLUNG VON BIENENWACHS– THYMOL–MIKROFAEDEN UND MIKROPARTIKELN DURCH EIN ELEKTROSTATISCHES ROTATIONS– SCHEIBEN ODER DUESEN–ABSPRUEHVERFAHREN ZUR VERWENDUNG DIESES VERFAHRENS BEI DER BEKAEMPFUNG VON BIENENSCHAEDLINGEN THE INVENTION CONCERNS A DEVICE FOR PRODUCING AND BEESWAX THYMOL–MIKROFAEDEN MICROPARTICLES BY AN ELECTROSTATIC ROTARY DISCS OR ALIVE–ABSPRUEHVERFAHREN TO USE THIS PROCEDURE IN THE SADDLE combat bee EDLINGEN (Machine translation)

**Priority:** DE201310014900 20130906

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| DE102013014900 A1 | 20150312 | DE201310014900 | 20130906 |

**Probable Assignee:** BUSCH RAINER

**Assignee(s):**(std)**:** BUSCH RAINER

**Inventor(s):**(std)**:** BUSCH RAINER

**International class (IPC 8–9):** A01N25/08 A01N31/08 A01P7/02 (Advanced/Invention)

**CPC:** A01N31/08 D01D5/0007 D01D5/18 D01F1/103

Classification Explorer

**Cited documents:** GB2482900 A1,

DE102007027014 A1

**Abstract:**
Source: DE102013014900A1 Ein Verfahren und eine Vorrichtung zur Herstellung von Bienenwachs–Thymol–Mikrofaeden und Mikropartikeln durch ein elektrostatisches Rotationsduese oder Scheiben–Abspruehverfahren mit einem in einer Schmelze oder Loesung eingebrachten Wirkstoff zur Bekaempfung von Bienenschaedlingen dadurch gekennzeichnet ist, dass diese Partikel auf einer Mittelwand, loesungsmittelfrei, durch ein elektrisches Feld oder nur durch Lenkluft geleitet, aufgebracht werden. A method and apparatus for making beeswax and thymol Mikrofaeden and microparticles by an electrostatic atomiser or disc Abspruehverfahren is marked with an introduced into a melt or solution of active ingredient for fighting of bees Saddle Edlingen the fact that these particles on the center panel, spoon–free, passes through an electric field or by directing air, can be applied.

0) DE202006007269U1 – HIVE FOR COMBATTING OF BEE PARASITES BY MEANS O...

**23) Family number: 33199542** (DE202006007269U1) © PatBase

**Title:** HIVE FOR COMBATTING OF BEE PARASITES BY MEANS OF A HEATER UNIT WITH A ELECTRICALLY HEATED ELEMENT AND AN EVAPORATOR COMPRISES HIVE ENTRANCES IN THE FORM OF ROUND HOLES

**Priority:** DE200620007269U 20060506

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| DE202006007269 U1 | 20060706 | DE200620007269U | 20060506 |

**Probable Assignee:** KALINKA WILFRIED

**Assignee(s):**(std)**:** KALINKA WILFRIED

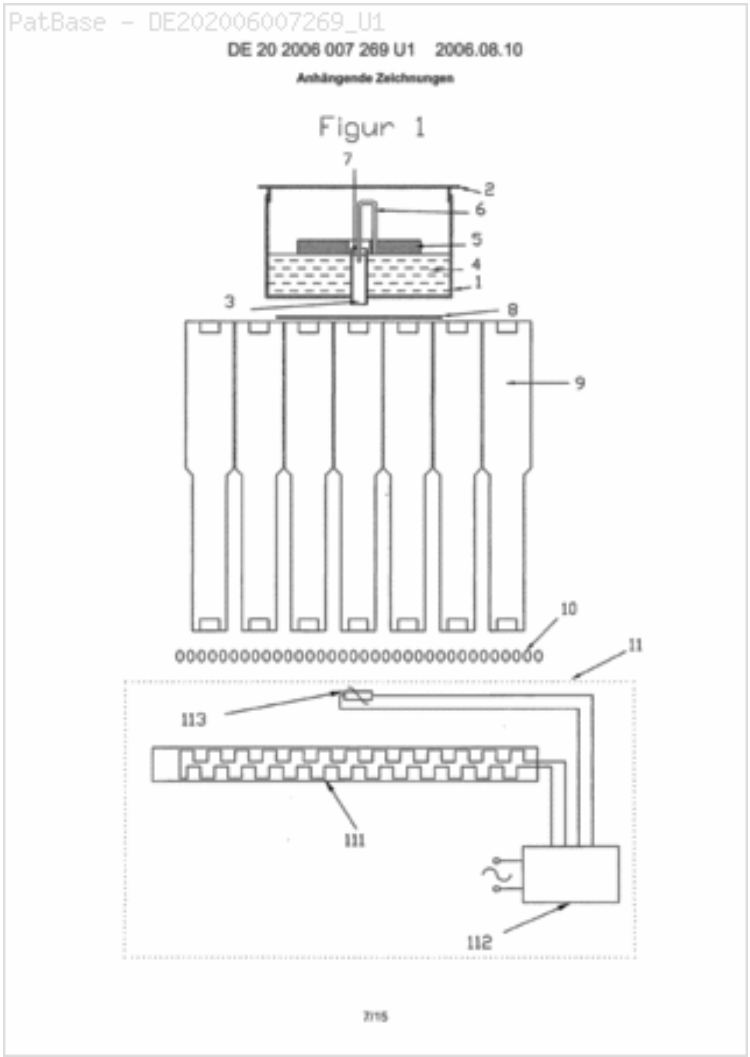
**International class (IPC 8–9):** A01K47/06 A01K51/00 (Advanced/Invention); A01K47/00 A01K51/00 (Core/Invention)

**CPC:** A01K51/00

**European class:** A01K51/00

Classification Explorer

**Abstract:**
Source: DE202006007269U1 The hive for combatting of bee parasites by means of a heater unit (11) with a electrically heated element (111) and an evaporator (8) comprises hive entrances in the form of round holes located in the top third of a side wall, preferably below a nest frame (9). An independent claim is also included for an evaporator usable for treatment of bees.



0) DE102006021144B3 – BEEHIVE FOR CONTROLLING PARASITES IN BEE COLONY...

**24) Family number: 37200937** (DE102006021144B3) © PatBase

**Title:** BEEHIVE FOR CONTROLLING PARASITES IN BEE COLONY HAS ENTRANCE HOLE FORMED AS ROUND HOLE ARRANGED IN UPPER THIRD OF ONE SIDE WALL, AND HAS EVAPORATOR FOR EVAPORATING LIQUID SUBSTANCES SUCH AS FORMIC ACID

**Priority:** DE200610021144 20060506

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| DE102006021144 B3 | 20070927 | DE200610021144 | 20060506 |

**Probable Assignee:** KALINKA WILFRIED

**Assignee(s):**(std)**:** KALINKA WILFRIED

**Inventor(s):**(std)**:** KALINKA WILFRIED

**International class** (IPC 8–9)**:** A01K47/06 A01K51/00 (Advanced/Invention); A01K47/00 A01K51/00 (Core/Invention)

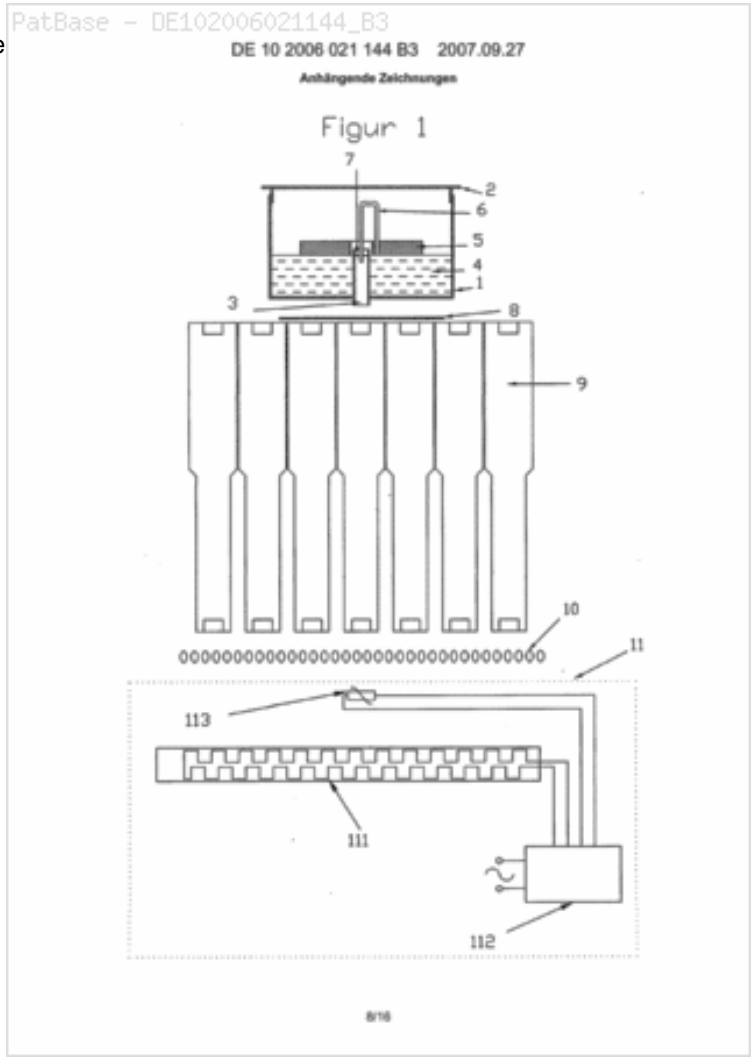
**CPC:** A01K51/00

**European class:** A01K51/00

Classification Explorer

**Cited documents:** EP0218162, DE8424750 U, DE3308017, DE19943711, DE19645300, DE19636498, DE10309323, DD292141, DD141986,

**Abstract:**
The beehive for controlling parasites in the bee colony, with an electric heater (111) in the base region of the hive, has the entrance hole formed as a round hole which is arranged in the upper third of one side wall, preferably above the lower edge of small frame (9) which is mounted for the nest construction. The entrance hold conically widens from the inside outwards. Holding units for additional devices for influencing the entrance hole cross section in the form of a conical wind protector can be arranged at the entrance hole or in its direct vicinity. An independent claim is included for an evaporator for treatment of bee colonies by evaporating liquid substance such as formic acid.



0) DE3643872A1 – METHOD AND DEVICE FOR THERMALLY COMBATING THE I...

**25) Family number: 6589594** (DE3643872A1) © PatBase

**Title:** Method and device for thermally combating the infestation with mites of bee colonies

**Priority:** DE19863643872 19861222

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| DE3643872 A1 | 19880630 | DE19863643872 | 19861222 |

**Probable Assignee:** GLUECK GUENTHER JOSEF

**Assignee(s):**(std)**:** GLUECK GUENTHER JOSEF

**Inventor(s):**(std)**:** GLUECK GUENTHER JOSEF

**Inventor(s):** JOSEF GLUECK GUENTHER

**International class** (IPC 1–7)**:** A01K47/00 A01K51/00

**CPC:** A01K51/00

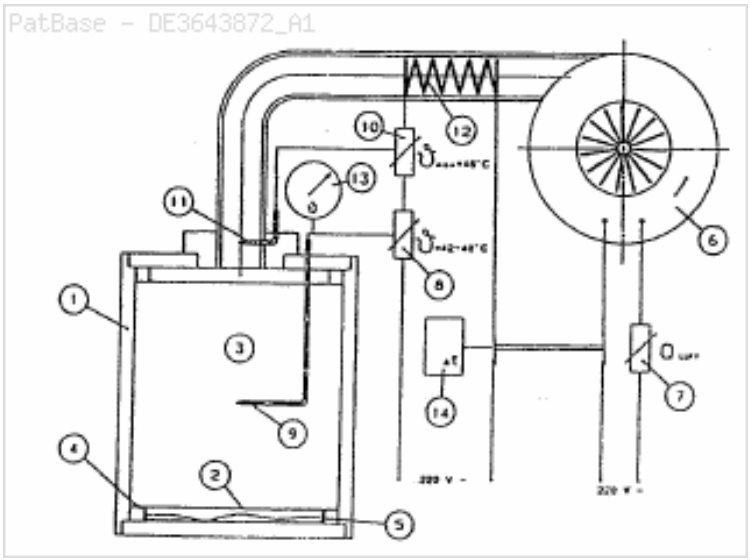
**European class:** A01K51/00

Classification Explorer

**Cited documents:** DD230752 Z, DD230752 A1,

**Forward Citations:** WO9214355, WO04098276, WO04098276, US6468129, EP2250880, DE4310406, DE19831912, DE19642624,

**Abstract:**
Source: DE3643872A1 For combating parasitic mites, in particular Varroa mites in bee colonies, an adjustable hot air flow at a temperature of approximately 42–48@C is supplied into the bee dwelling of the bee colony affected or into a treatment box, which flow induces difficulty in breathing in the parasite, dries it out, at the same time blows it off of the bees and sticks it to an adhesive insert under the wire mesh bottom of the treatment box. The hot air flow breaks up the bee cluster and prevents a renewed cluster formation during the treatment. The device for implementing the method has a hot air blower (6) which is mounted on the box (1) of the bee colony and can be controlled in the heating effect and air quantity.



0) FR2908960B – DISPOSITIF POUR TRAITER LES PARASITES DES ABEIL...

**26) Family number: 41862735** (FR2908960B) © PatBase

**Title:** DISPOSITIF POUR TRAITER LES PARASITES DES ABEILLES

**Priority:** FR20060010503 20061129

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| FR2908960 A1 | 20080530 | FR20060010503 | 20061129 |
| FR2908960 B1 | 20090515 | FR20060010503 | 20061129 |

**Probable Assignee:** MORIAT CLAUDE GEORGES CHARLES

**Assignee(s):**(std)**:** MORIAT CLAUDE GEORGES CHARLES

**Assignee(s):** CLAUDE GEORGES CHARLES MORIAT

**Inventor(s):**(std)**:** MORIAT CLAUDE GEORGES CHARLES

**Inventor(s):** CLAUDE GEORGES CHARLES MORIAT

**Agent(s):** CLAUDE MORIAT

**International class (IPC 8–9):** A01K51/00 (Advanced/Invention); A01K51/00 (Core/Invention)

**CPC:** A01K47/06

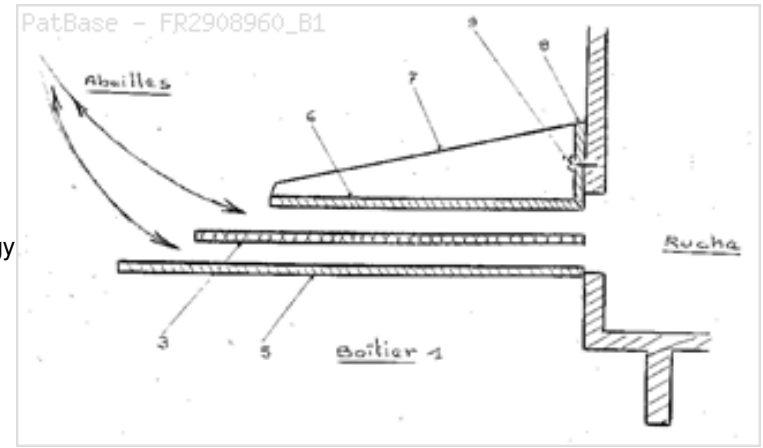
**European class:** A01K47/06

Classification Explorer

**Cited documents:** US6037374 A, EP1374678 A1, DE10300161 A1,

**Forward Citations:** RU2484623,

**Abstract:**
The device has a case provided with three slides in which processing pads (3) are introduced for arranging two inlets on two levels, or four channels in a width of the device. The case is fixed on a front face of a beehive for communicating the inlets of the case with the beehive. The pads delimit four channels whose heights of a passage are calibrated based on the function of morphology of bee race.




- **search:** SS6 FT=hive* and bee* and foldable (Results 31)
- List: SS6 1–50 (FT=hive* and bee* and foldable) (Results 31)

0) US2008119110A – BEEHIVE LID

**1) Family number: 33211004** (US2008119110A) © PatBase

**Title:** BEEHIVE LID

**Priority:** EP20060710188 20060208 GR20050010057 20050209 GR20050100057 20050209 WO2006GR00006 20060208 WO2006GR00006 20070907

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| AP200704091 A0 | 20070831 | AP20070004091 | 20060208 |
| AT414421 E | 20081215 | AT20060710188T | 20060208 |
| AU2006212044 AA | 20060817 | AU20060212044 | 20060208 |
| AU2006212044 BB | 20101104 | AU20060212044 | 20060208 |
| BRPI0608530 A2 | 20100119 | BR2006PI08530 | 20060208 |
| BRPI0608530 B1 | 20141111 | BR2006PI08530 | 20060208 |
| CA2595094 AA | 20070717 | CA20062595094 | 20060208 |
| CA2595094 C | 20130820 | CA20062595094 | 20060208 |
| CN101115386 A | 20080130 | CN200680004199 | 20060208 |
| CN101115386 B | 20110601 | CN200680004199 | 20060208 |
| CY1109047 T1 | 20140702 | CY20091100170T | 20090218 |
| DE602006003729 D1 | 20090102 | DE200660003729T | 20060208 |
| DK1848267 T3 | 20090316 | DK20060710188T | 20060208 |
| EG24778 A | 20100830 | EG20070000784T | 20070729 |
| EP1848267 A2 | 20071031 | EP20060710188 | 20060208 |
| EP1848267 B1 | 20081119 | EP20060710188 | 20060208 |
| ES2317506 T3 | 20090416 | ES20060710188T | 20060208 |
| GR1005104 B | 20060113 | GR20050100057 | 20050209 |
| GR1005104 B1 | 20060113 | GR20050100057 | 20050209 |
| HR20090088 T3 | 20090331 | HR20090000088 | 20090212 |
| JP2008529488 T2 | 20080807 | JP20070553717T | 20060208 |
| JP4991570 B2 | 20120801 | JP20070553717T | 20060208 |
| KR100915113 B1 | 20091008 | KR20077020523 | 20060208 |
| KR20070108539 A | 20071112 | KR20077020523 | 20070907 |
| MX2007009692 A1 | 20070913 | MX20070009692 | 20060208 |
| NZ556623 A | 20110225 | NZ20060556623 | 20060208 |
| PT1848267 T | 20090220 | PT20060710188T | 20060208 |
| RS50765 B | 20100831 | RS20090000077 | 20060208 |
| RU2007128034 A | 20090320 | RU20070128034 | 20060208 |
| RU2382552 C2 | 20100227 | RU20070128034 | 20060208 |
| SI1848267 T1 | 20090430 | SI20060030206T | 20060208 |
| US2008119110 AA | 20080522 | US20060814192 | 20060208 |
| US7686672 BB | 20100330 | US20060814192 | 20060208 |
| WO06085124 A2 | 20060817 | WO2006GR00006 | 20060208 |
| WO06085124 A3 | 20060928 | WO2006GR00006 | 20060208 |

**Probable Assignee:** LEXGLOBE LLP

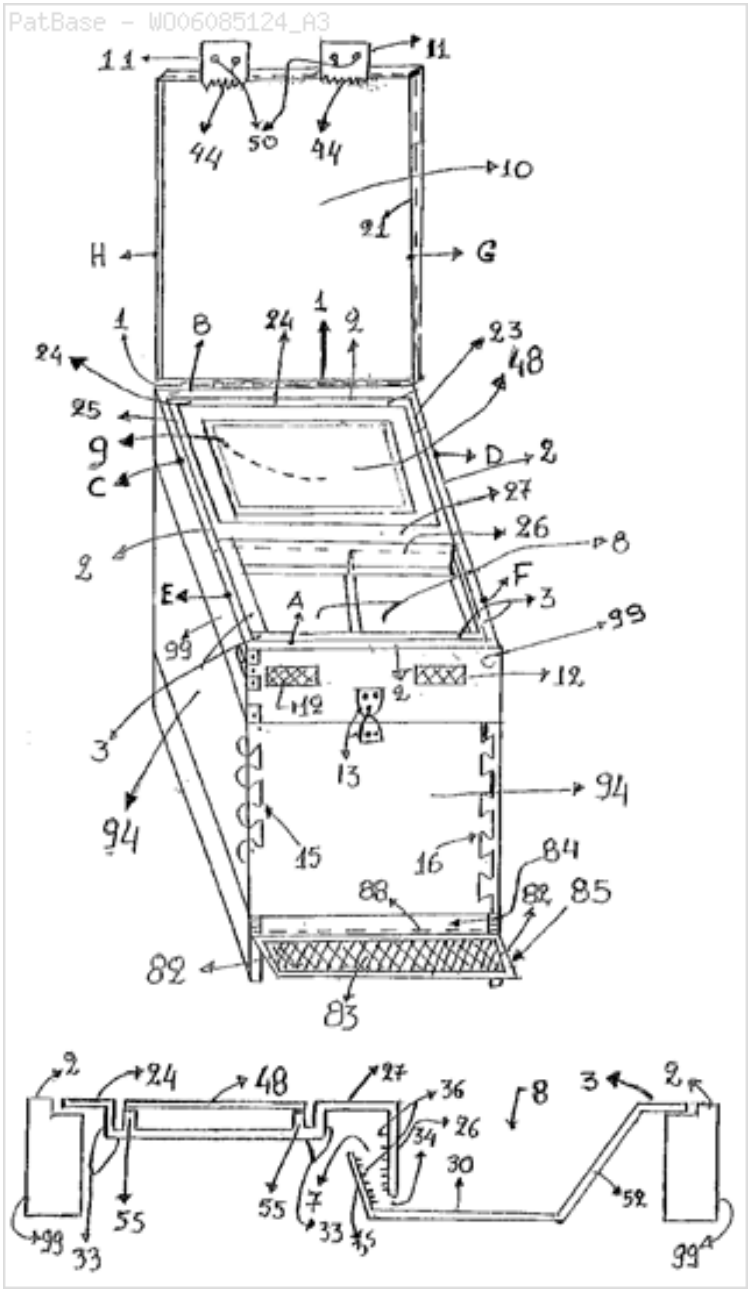
**Assignee(s):(std):** IOANNIS KATSAMPIS ; KATSAMPIS IOANNIS ; LEXGLOBE LLP ; NEUROSEARCH AS ; KATSAMPIS LOANNIS

**Assignee(s):** NEURO SEARCH A AND S ; NEURO SEARCH A S ; KATSAMPIS JANIS ; KATSABIS IOANNIS ; KATSAMPIS

**Inventor(s):(std):** IOANNIS KATSAMPIS ; KATSAMPIS IOANNIS

| | |
|---|---|
| **Inventor(s):** | KATSAMPIS JANIS ; KATSABIS IOANNIS ; KATSAMPIS |
| **Agent(s):** | ACACIA LAW; BORDEN LADNER GERVAIS LLP; DAVID A GUERRA INT PATENT GROUP LLC; ROYLANCE ABRAMS BERDO AND GOODMAN LLP |
| **Designated states:** | AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LC LI LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MW MX MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW |
| **International class (IPC 8–9):** | A01K47/00 A01K47/06 A01K53/00 (Advanced/Invention); A01K47/00 A01K47/06 (Advanced/Non–invention); A01K47/00 A01K53/00 (Core/Invention) |
| **CPC:** | A01K53/00 A01K47/00 A01K47/06 |
| **European class:** | A01K47/00 A01K53/00 |
| **US class:** | 449/15 449/25 449/3 449/6 |
| Classification Explorer | |
| **Cited documents:** | WO04021773 A1, US768370 A, US4736479 A, US4546509 A, US4402099 A, US4199832 A, US3200419 A, US2525251 A, US2340219 A, US2300772 A, US1911466 A, US1607659 A, US129464 A, US129464, JP2002159240 A2, JP2002159240, JP2002125506 A2, JP2002125506, JP11016075 Y1, JP11016075 Y, GR20020100010 A, GR20020100010, FR941288 A, FR2688381 A1, FR2688381, FR0941288, CH53844, CH538244 A, CH538244, |
| **Forward Citations:** | WO15079274, WO09004550, USD641935, USD634483, USD634482, USD629163, USD617958, US9526233, US9320264, US8764512, US8485859, US2015359204, US2012295514, US2010203802, KR101679649, JP5748622, JP2013059278, DE202012007392, CN105145411, CN103348931, |

**Abstract:**
Source: US2008119110A The lid of the beehive has a split open top (10) held by a mechanism to the one side of the body (99) of the lid. By opening the top (10) of the lid a surface is revealed which has containers (8) on the one side and an easily open cover (48) on the other, which enables immediate access into the internal of the hive. On the top (10) of the lid there are shutters (11) that open and close the air intake holes (12). The hive has a folding take off board (85) on its bottom reducing space during transportation. It uses dovetail (15,16) joints to withhold the sidewalls (94). This makes it very durable.



0) WO12018266A1 – METHOD AND APPARATUS FOR PEST CONTROL PROCEDE ...

**2) Family number: 50623584** (WO12018266A1) © PatBase

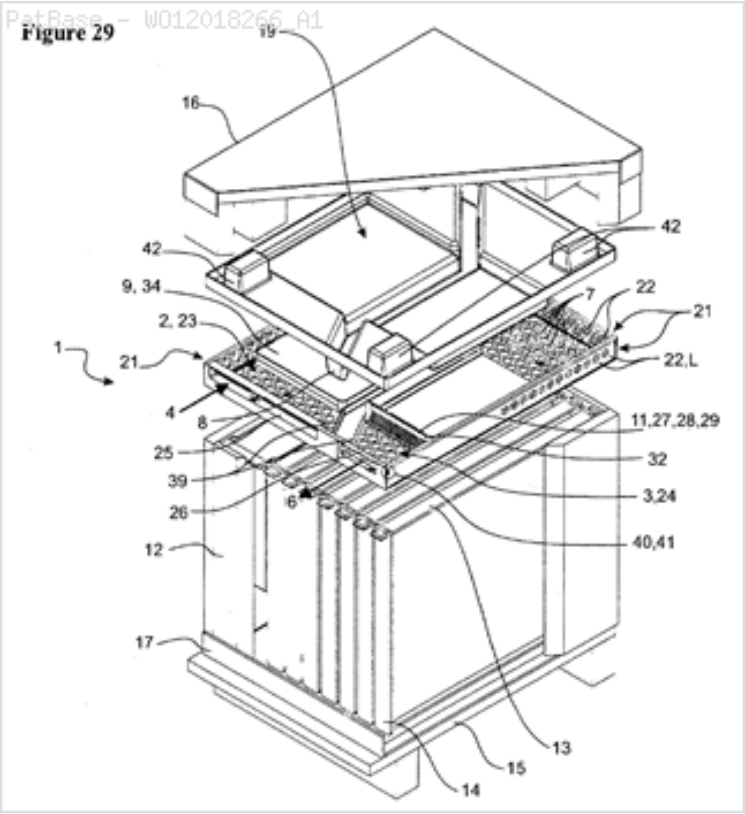
| | |
|---|---|
| **Title:** | METHOD AND APPARATUS FOR PEST CONTROL |
| **Priority:** | NZ20100587219 20100805 |

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| WO12018266 A1 | 20120209 | WO2011NZ00151 | 20110805 |

| | |
|---|---|
| **Probable Assignee:** | NZ INST PLANT AND FOOD RES LTD |
| **Assignee(s):**(std)**:** | GOODWIN ROBERT MARK ; NEW ZEALAND INST FOR PLANT AND FOOD RES LTD ; NZ INST PLANT AND FOOD RES LTD ; PINFOLD ERIN JAMES |
| **Assignee(s):** | THE NEW ZEALAND INSTITUTE FOR PLANT AND FOOD RESEARCH LIMITED ; NEW ZEALAND INST FOR PLANT AND FOOD RESEARCH LTD |
| **Inventor(s):**(std)**:** | GOODWIN ROBERT MARK ; PINFOLD ERIN JAMES |
| **Agent(s):** | FOOTE HUMPHREY C ET AL |
| **Designated states:** | AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT QA RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW |
| **International class (IPC 8–9):** | A01K47/06 A01M1/20 (Advanced/Invention) |
| **CPC:** | A01K51/00 |
| **European class:** | A01K51/00 |
| Classification Explorer | |
| **Cited documents:** | US5348511 A, JP2007143428 A2, |
| **Forward Citations:** | WO15138361, US9474776, EP3111763, EP2962568, EP2952512, EP2952507, EP2952506, CN103329822, AU2015229670, AU2015229670, |

**Abstract:**
The invention provides a method for controlling growth of a pathogen of bees, the method comprising providing a culture of a fungus inside, or proximate to a beehive, wherein the culture is positioned to be contacted by the bees to effect control of growth of the pathogen. The invention also provides for a device locatable at the entrance or exit (or both) of an insect colony. The device comprises an entranceway in communication with a passageway extending to first openings into an insect nest, and an exitway in communication with the passageway extending from the first openings or second openings out of the nest. Interposed between the entranceway and exitway, and the first openings or second openings, is a region receivable or supportable of an inoculum. The invention also provides the method for controlling growth of a pathogen of bees wherein the culture is provided in the device.



0) US2016212977A – DEVICE FOR DIAGNOSING INFESTATION

**3) Family number: 55625826** (US2016212977A) © PatBase

**Title:** DEVICE FOR DIAGNOSING INFESTATION

**Priority:** DE201320007841U 20130904 WO2014EP68617 20140902

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| AU2014317213 AA | 20150312 | AU20140317213 | 20140902 |
| CA2922880 AA | 20160301 | CA20142922880 | 20140902 |
| CN105491881 A | 20160413 | CN201480048940 | 20140902 |
| CO16055554 A2 | 20160620 | CO20160055554 | 20160303 |
| CR20160109 A | 20160422 | CR20160000109 | 20160304 |
| DE202013007841 U1 | 20140116 | DE201320007841U | 20130904 |
| DOP2016000056 A | 20160315 | DO20160000056 | 20160226 |
| EP3041349 A1 | 20160713 | EP20140780772 | 20140902 |
| IL244266 A0 | 20160421 | IL20140244266 | 20140902 |
| IN201647006876 A | 20160701 | IN201647006876 | 20160229 |
| JP2016536000 T2 | 20161124 | JP20160539505T | 20140902 |
| KR20160050022 A | 20160510 | KR20167004970 | 20140902 |
| MX2016002533 A1 | 20160621 | MX20160002533 | 20140902 |
| PE03682016 A1 | 20160511 | PE20160000336 | 20140902 |
| PH2016500419 A | 20160516 | PH20160500419 | 20160303 |
| US2016212977 AA | 20160728 | US20140916244 | 20140902 |
| WO15032753 A1 | 20150312 | WO2014EP68617 | 20140902 |

**Probable Assignee:** BAYER ANIMAL HEALTH GMBH

**Assignee(s):**(std)**:** BAYER ANIMAL HEALTH GMBH

**Assignee(s):** BUCHLER RALPH ; HABIG JORG ; KRIEGER KLEMENS

**Inventor(s):**(std)**:** BUCHLER RALPH ; BUECHLER RALPH ; HABIG JOERG ; HABIG JORG ; JORG HABIG ; KLEMENS KRIEGER ; KRIEGER KLEMENS ; RALPH BUCHLER

**Inventor(s):** RALPH BUECHLER ; JOERG HABIG

**Agent(s):** GRIFFITH HACK; FETHERSTONHAUGH AND CO; CAROLINA MERCEDES DAZA MONTALVO; BIP PATENTS; SHIGEMORI KAZUKI; TSUBOKURA MICHIAKI; KANAYAMA MASATAKA; ONO MAKOTO

**Designated states:** AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

**International class (IPC 8–9):** A01K A01K47/00 A01K47/06 A01K51/00 A01M1/00 A01M1/14 A01M1/20 (Advanced/Invention); A01K (Subclass/Invention)

**CPC:** A01K47/00 A01K47/06 A01K51/00

**US class:** 449/2

Classification Explorer

**Cited documents:** US6468129 BA, US4867731 A, US2008280528 AA, GB2495284 A1,

DE202011106067 U1

**Forward Citations:** DE202015106406, DE102014110009,

**Abstract:**
Source: US2016212977A The invention relates to a device for examining the infestation of honey bee colonies with Varroa mites. The device contains a container with a bottom, side walls and a cover. Within the container there is a means which causes the Varroa mites to drop off the bees, but does not harm the bees, and a means for fixing the dropped Varroa mites to the bottom of the container. The invention furthermore relates to a method of examining the degree of infestation of honey bee colonies with Varroa mites using the device according to the invention, and to a method for examining the sensitivity of the Varroa mites of a bee colony to various acaricid–containing active compounds using the device according to the invention.

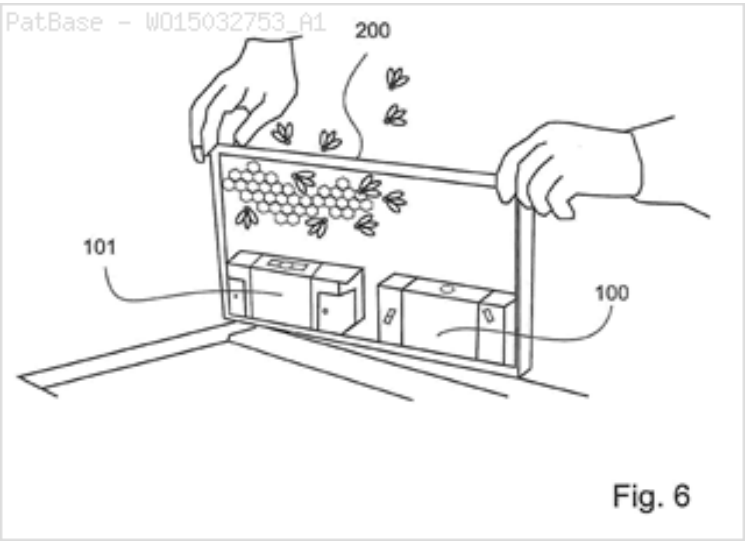


Fig. 6

0) GB645270A – IMPROVEMENTS IN AND RELATING TO BEE HIVES

**4) Family number: 19578681** (GB645270A)

© PatBase

**Title:** Improvements in and relating to bee hives

**Priority:** GB19470026225 19470927

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| GB645270 A | 19501025 | GB19470026225 | 19470927 |

**Probable Assignee:** CHARLES ANSON SMITH

**Assignee(s):**(std)**:** CHARLES ANSON SMITH

**International class (IPC 8–9):** A01K47/00 (Advanced/Invention); A01K47/00 (Core/Invention)

**International class (IPC 1–7):** A01K47/00

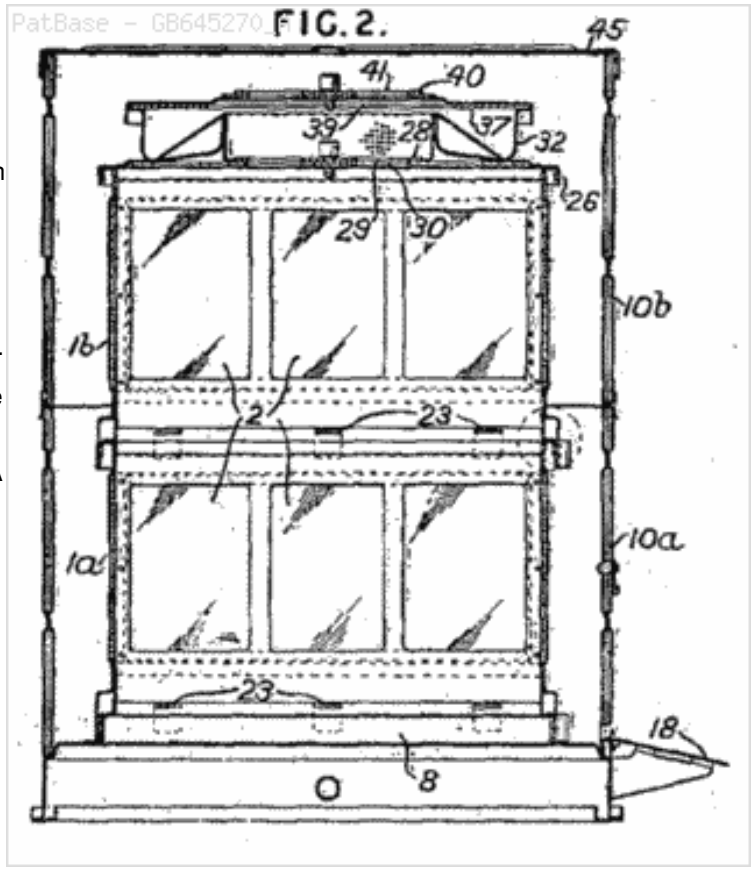
**CPC:** A01K47/00

**European class:** A01K47/00

Classification Explorer

**Forward Citations:** WO8603935,

**Abstract:**
Source: GB645270A 26225. [Class 5(ii)] A bee–hive comprises a number of superimposed chambers 1a, 1b having windows 2 and mounted on a stand 8 wherein each chamber has a slot (not shown) for the insertion of a manipulating plate which rests on supports 23. The top chamber is fitted with a lid 26 provided with a rotatable disc 28 which has bee slots 29 cooperating with bee slots 30 on the lid. On top of the lid 26 is an annular trough–like feeder 32 above which is a cover having windows 37 and bee slots 39 which cooperate with slots 41 on a rotatable plate 40. The hive is enclosed in an opaque sheath having walls of double thickness which may be provided with troughs for storing water. As shown, the sheath comprises two sections 10a, 10b and a transparent or opaque lid 45. A foldable alighting board 18 is provided and the hive may be electrically heated. The hive is made of sheet metal and the windows of a glassclear synthetic resin.



0) WO04112472A1 – FRAME FOR AND BEE HIVE FOUNDATION AND METHOD OF...

**5) Family number: 31423672** (WO04112472A1) © PatBase

**Title:** FRAME FOR AND BEE HIVE FOUNDATION AND METHOD OF MANUFACTURE

**Priority:** SE20030001838 20030624

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| SE200301838 A | 20050224 | SE20030001838 | 20030624 |
| SE200301838 A0 | 20030624 | SE20030001838 | 20030624 |
| WO04112472 A1 | 20041229 | WO2004SE01033 | 20040623 |

**Probable Assignee:** BHF BEE HIVE FOUNDATION AB

**Assignee(s):**(std)**:** BHF BEE HIVE FOUNDATION AB ; CEDERSTROEM JAN ; LUNDQUIST TOMMY

**Inventor(s):**(std)**:** CEDERSTROEM JAN ; LUNDQUIST TOMMY

**Inventor(s):** TOMMY LUNDQUIST

**Designated states:** AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

**International class (IPC 8–9):** A01K47/02 A01K47/04 (Advanced/Invention); A01K47/00 (Core/Invention)

**International class (IPC 1–7):** A01K47/02 A01K47/04

**CPC:** A01K47/02 A01K47/04

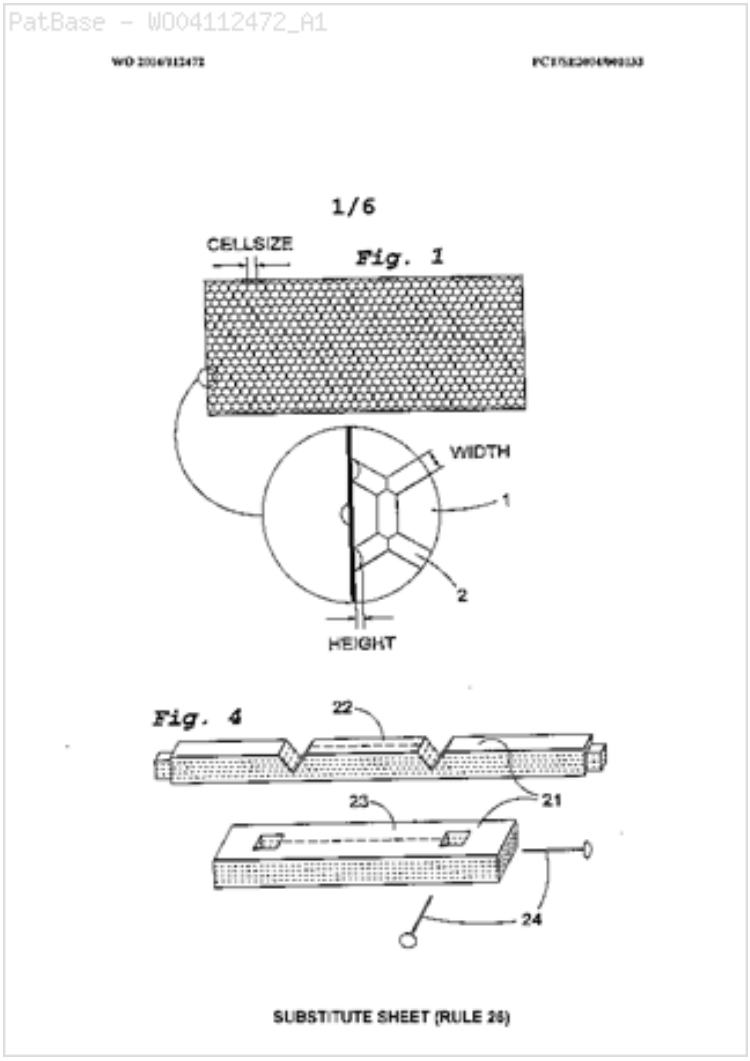
**European class:** A01K47/02 A01K47/04

Classification Explorer

**Cited documents:** US1882938 A, US1773221 A, FR2594637 A1, FR2398453 A1, EP0893234 A2, DE1949124 A1,

**Forward Citations:** WO15013774, DE202015106406,

**Abstract:**
The present invention relates to a frame for supporting a bee hive foundation. According to the invention the frame consists of foldable material, which is folded into a rectangular frame with the aid of folding indentions in the frame material. The invention also relates to a method and apparatus for manufacturing such a frame and bee hive foundation.



0) WO15156694A3 – ERGONOMIC BEEHIVE RUCHE ERGONOMIQUE

**6) Family number: 60592809** (WO15156694A3) © PatBase

**Title:** ERGONOMIC BEEHIVE

**Priority:** RO20130000040U 20130927 WO2014RO00025 20140919

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| EP3048880 A2 | 20160803 | EP20140888914 | 20140919 |
| WO15156694 A2 | 20151015 | WO2014RO00025 | 20140919 |
| WO15156694 A3 | 20151210 | WO2014RO00025 | 20140919 |

**Probable Assignee:** CHITICARU CONSTANTIN

**Assignee(s):**(std)**:** CHITICARU CONSTANTIN

**Inventor(s):**(std)**:** CHITICARU CONSTANTIN ; BOBESCU IOAN

**Agent(s):** WEICKMANN AND WEICKMANN PARTMBB

**Designated states:** AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

**International class (IPC 8–9):** A01K47/00 (Advanced/Invention)

**CPC:** A01K47/06 A01K47/00

Classification Explorer

**Cited documents:** US2013005216 AA, EA201201072 A1,

**Abstract:**
The "Ergonomic beehive" invention, part of "means and product" field solves time, effort and efficiency problems in apiary activities. The invention refers to the construction and operation of a vertical beehive, executed entirely of softwood with some hardwood elements, and which consists of multiple parts: cover (I), storeroom (II) nest (III) and reversible bottom (IV), joined together with conjugated profiles, that have blocking elements, flexible clamps system, hinge system elements for folding down in working position at 45–90 degrees angles, between the functional parts cover– storeroom, cover and storeroom–nest or cover–nest, when is not working with storeroom, nest folding down system with storeroom and cover in relation to folding bottom, brindle joint system, all parts blocking at different angles with adjustable size grip chain;the beehive has a folding flying board hooked to the reversible bottom with a hinge system having wood dowels inside for blocking the nest and storeroom's frames at the bottom.. The "Ergonomic beehive" invention solves the following issues: – minimizes intervention time at beehive – diminishes stress among bee family and offers transport safety – increased productivity with lesser effort per beehive unit – possibility of intervention in all apiary in short time, minimizing and even eliminating losses due to bee swarming, diseases, pests, the queen bee's death, lack of food, etc.

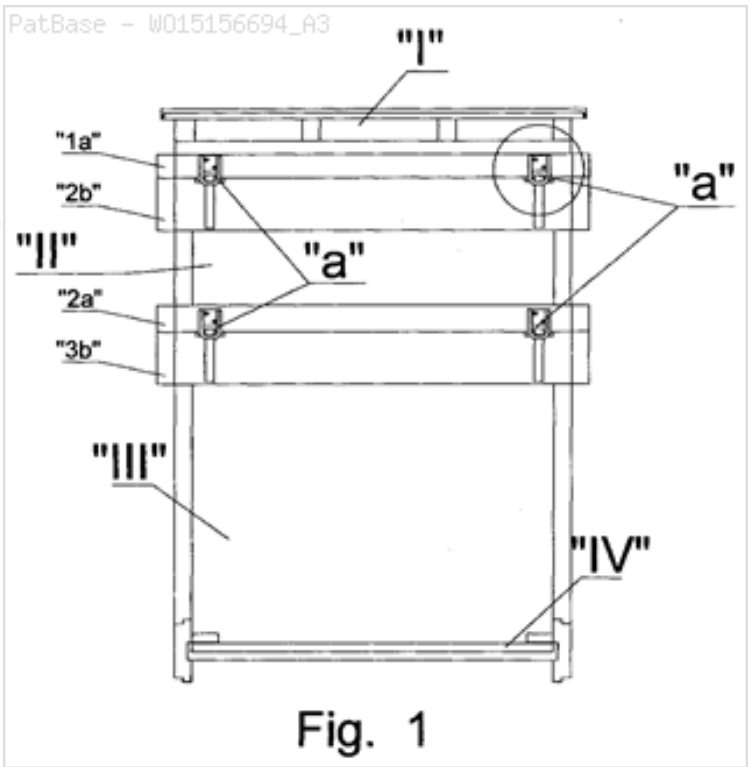


Fig. 1

0) DE202015002350U1 – BIENENBEUTE MIT VORRICHTUNG ZUR BEKAEMPFUNG VON...

**7) Family number: 59457334** (DE202015002350U1) © PatBase

**Title:** BIENENBEUTE MIT VORRICHTUNG ZUR BEKAEMPFUNG VON VARROAMILBEN Hive with a device to combat Varroa (Machine translation)

**Priority:** DE201520002350U 20150327

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| DE202015002350 U1 | 20150611 | DE201520002350U | 20150327 |

**Probable Assignee:** RIEDMAYER MARTIN

**Assignee(s):**(std)**:** RIEDMAYER MARTIN

**Assignee(s):** RIEDMAYER

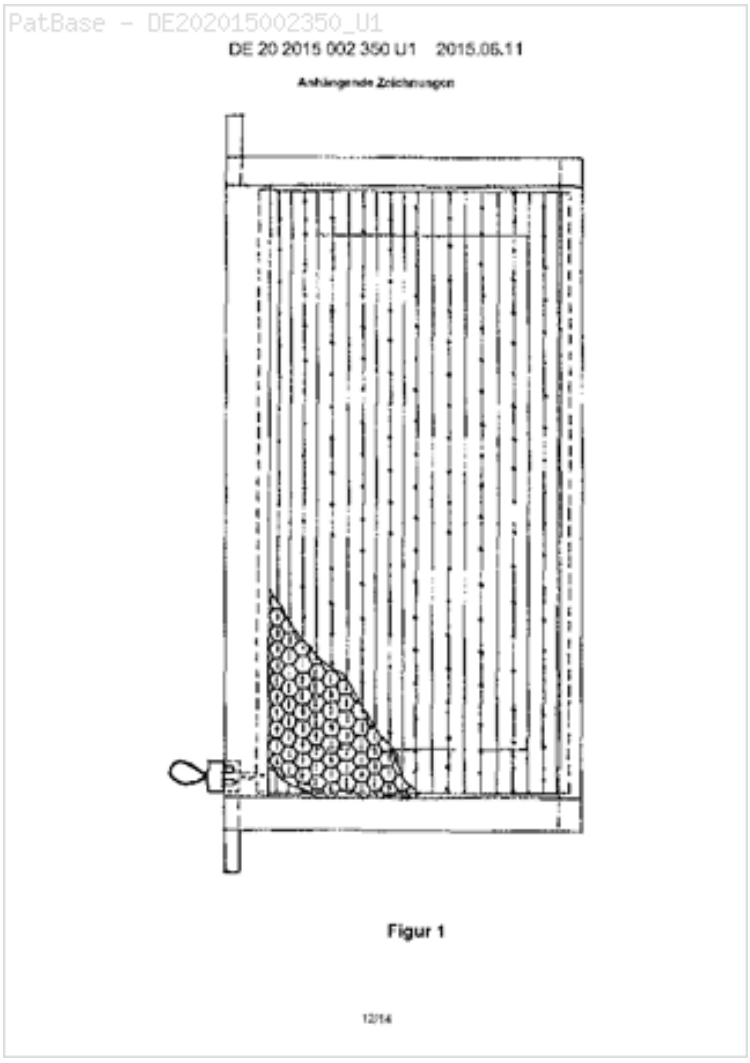
**International class (IPC 8–9):** A01K47/02 (Advanced/Invention)

**CPC:** A01K51/00

Classification Explorer

**Cited documents:** WO12108857 A1,

**Abstract:**
Source: DE202015002350U1 Bienenbeute, mit in einer Gehaeuseanordnung raeumlich voneinander getrennt untergebrachten flaechigen Wabentraegern fuer Brutwaben, einerseits, und Honigwaben, andererseits, und einer Vorrichtung zur Reduzierung von Varroamilben, wobei diese Vorrichtung eine jedem Brutwabentraeger zugeordnete elektrische Heizeinrichtung und eine jedem Brutwabentraeger zugeordnete Vielzahl von in gitterartiger Anordnung ueber den gesamten Wabentraeger verteilten Temperatursensoren umfasst, und eine die Temperatursignale verarbeitende und die Energiezufuhr zu den Heizeinrichtungen steuernde Steuer– und Regeleinrichtung aufweist, derart, dass die Brutwabentraeger bis zu einer Zieltemperatur in den Waben der Drohnenbrut und der Arbeiterinnenbrut, bei der in diesen angesiedelte Varroamilben abgetoetet, die Bienenbrut aber im wesentlichen nicht beeintraechtigt wird, aufheizbar sind, und die Heizeinrichtungen nach einer vorbestimmten Zeit, in der die Zieltemperatur gehalten wird, abschaltbar sind. Hive, for having in a Gehaeuseanordnung spaced–accommodated separately extensive Wabentraegern brood combs, on the one hand, and honeycomb, on the other hand, and a device for reducing varroa mites, which device assigned a any Brutwabentraeger electric heater and each Brutwabentraeger associated variety of in lattice–like arrangement over the entire Wabentraeger distributed temperature sensors comprises, and the temperature signals processing and has the power to the heating controlling control and regulating device, such that the Brutwabentraeger up to a target temperature in the combs of drone brood and worker brood, when in this killed Settled Varroa mites, the bee brood is not substantially affected, can be heated, and the heaters are switched off after a predetermined time in which the target temperature is maintained.



0) US2009188181A – INNOVATIVE, MODULAR, HIGHLY–INSULATING PANEL AN...

**8) Family number: 43553934** (US2009188181A) © PatBase

**Title:** INNOVATIVE, MODULAR, HIGHLY–INSULATING PANEL AND METHOD OF USE THEREOF

**Priority:** US20080011595 20080128 US20110118791 20110531 WO2009US01929 20090327 US20140465080 20140821

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| CA2751006 AA | 20090806 | CA20092751006 | 20090327 |
| EP2396480 A2 | 20111221 | EP20090706579 | 20090327 |
| US2009188181 AA | 20090730 | US20080011595 | 20080128 |
| US2011226425 AA | 20110922 | US20110118791 | 20110531 |
| US2014360688 AA | 20141211 | US20140465080 | 20140821 |
| US8851144 BB | 20141007 | US20110118791 | 20110531 |
| US9512670 BB | 20161206 | US20140465080 | 20140821 |
| WO09097163 A2 | 20090806 | WO2009US01929 | 20090327 |
| WO09097163 A3 | 20091126 | WO2009US01929 | 20090327 |
| WO09097163 A8 | 20110603 | WO2009US01929 | 20090327 |

**Probable Assignee:** FORBIS ANN R

**Assignee(s):**(std)**:** FORBIS ANN R ; FORBIS ANN RENEE ; FORBIS JACK R

**Inventor(s):**(std)**:** FORBIS ANN R ; FORBIS ANN RENEE ; FORBIS JACK R

**Agent(s):** RIDOUT AND MAYBEE LLP; WOOD GRAHAM; JACK R FORBIS; HEAD JOHNSON AND KACHIGIAN PC; DENNIS D; BROWN PATENT LAW PLLC

**Designated states:** AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

**International class** (IPC 8–9)**:** A47G5/00 E04B1/80 E04B1/90 E04B1/92 E04B2/74 E04C2/26 E04C2/34 E04C2/38 E04H14/00 E04H9/00 E04H9/16 E06B9/24 E06B9/52 F16L59/00 H01L31/042 H02S20/21 H02S20/22 (Advanced/Invention);
B60J1/20 F24J2/46 F24J2/52 (Advanced/Non–invention);
E04B1/74 E04B1/80 E04C2/26 E04C2/34 E04C2/38 E04H14/00 F16L59/00 (Core/Invention)

**CPC:** A47G5/00 B60J1/2011 E04B1/80 E04B2/7422 E04B2002/7479 F24J2/52 F24J2002/4659 H01L31/042 Y02E10/50 E06B9/24 E04H9/00 E04B1/92 E04C2/384 H02S20/21 H02S20/22 Y02B10/10 Y02P80/25

**European class:** E04B1/80 E04C2/38C H01L31/042 R24J2/46P6 R24J2/52 Y02E10/50

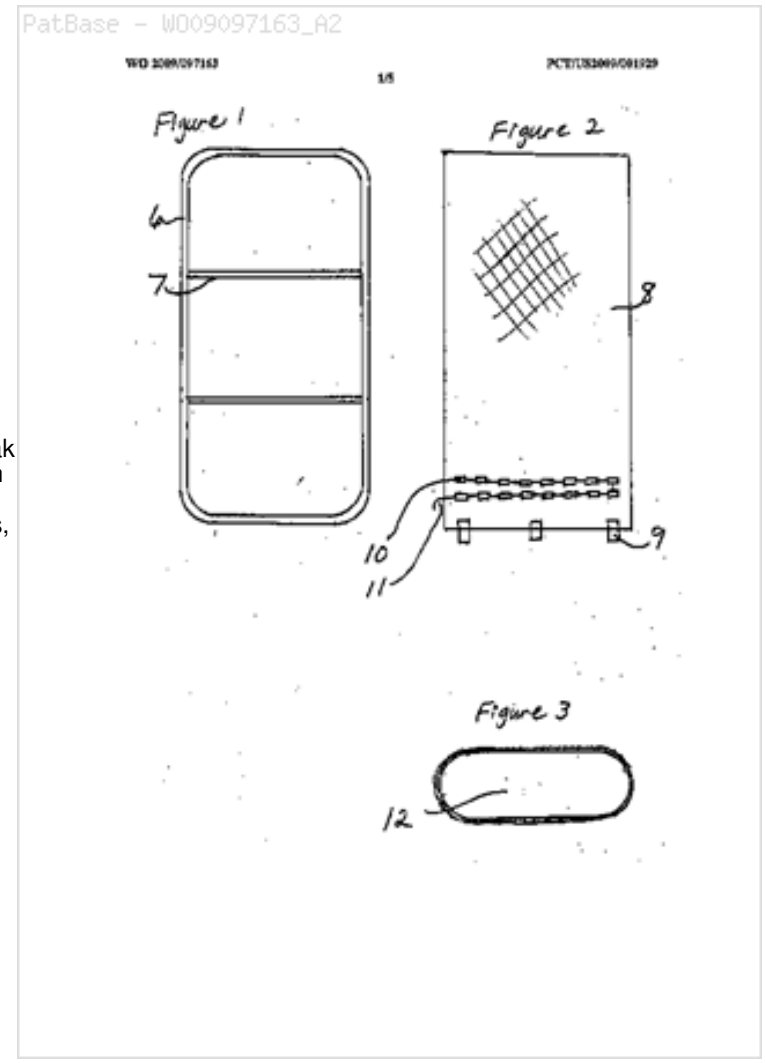
**US class:** 160/127 160/135 160/351 160/377 160/377S 160/378 160/378S 160/379 160/381 160/405 160/405S 52/173.1 52/173.100P 52/222 52/656.1 52/656.100S 52/791.1 52/791.100S

Classification Explorer

**Cited documents:** USD458040 S1, US8015737 BB, US7615962 BA, US7246468 BB, US7152902 BB, US6926020 BB, US6516571 BA, US6374565 BA, US6371190 BA, US6206079 BA, US6164005 A, US6161320 A, US6145528 A, US6009673 A, US5941265 A, US5595233 A, US5537766 A, US5531258 A, US5415194 A, US5414950 A, US5070665 A, US5058863 A, US4860467 A, US4821349 A, US4798019 A, US4761908 A, US4635417 A, US4526250 A, US4516620 A, US4448003 A, US4224754 A, US4179830 A, US4134439 A, US4121645 A, US4062589 A, US3875711 A, US3713474 A, US3709237 A, US3600035 A, US2888072 A, US2840161 A, US2645540 A, US2641779 A, US2484984 A, US2470416 A, US2266854 A, US2193469 A, US2012063951 AA, US2010011641 AA, US2007212253 AA, US2002170265 AA, US170265 A, US1422915 A, US1400717 A, US135389 A, US1324234 A, KR304748, KR20050115037 A, KR200304748 Y1, KR100304748 B1, KR100304748 B1, JP2005114028 A2, JP114028, JP11004028 A2,

**Forward Citations:** WO13142096, USD727539, US9635833, US9611728, US9587649, US9511930, US9416590, US9382703, US9340319, US9212485, US9068372, US8978342, US8656672, US2016281419, US2016208592, US2015321457, US2014196759, US2014115985, US2011154761, US2010300371, US2007261299,

**Abstract:**
Source: US2009188181A An innovative, low−density, highly−insulating modular panel for use in many applications and industries. The panel consists of a frame and a "tube" or "pocket" of thin, low−density, lightweight material that has the capability of sufficiently stretching to surround the frame when the "tube" or "pocket" is pulled onto it. When fabricated, the "tube" or "pocket" panel covering was made slightly narrower than the frame. The "tube" or "pocket" is then secured along the previously open end or ends of the panel, where frame was inserted, by various fastening devices. The panel is durable and cost−effective for numerous uses. It has very good solar−control and insulating qualities. It also has usefulness as an improved windbreak panel, an improved noise−reduction panel, an improved hail and impact protection panel, a fall protection panel and, in some applications, an improved pollution−control panel.



0) DE2441735A1 – DOPPELBEUTE – BIENENKASTEN TRANSPORTABLE INDUST...

**9) Family number: 2170795** (DE2441735A1) © PatBase

**Title:** DOPPELBEUTE – BIENENKASTEN TRANSPORTABLE INDUSTRIAL DOUBLE BEEHIVE – HAS ROOF AND DOORS FOLDABLE AND SECURED BY SINGLE HASP

**Priority:** DE19742441735 19740830

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| DE2441735 A1 | 19760311 | DE19742441735 | 19740830 |

**Probable Assignee:** PAVICIC DRAGUTIN DIPL ING

**Assignee(s):**(std)**:** PAVICIC DRAGUTIN DIPL ING

**Assignee(s):** PAVICIC DRAGUTIN DIPL ING 6500 MAINZ

**Inventor(s):**(std)**:** PAVICIC DRAGUTIN DIPL ING

**Inventor(s):** PAVICIC DRAGUTIN DIPL ING 6500 MAINZ

**International class** (IPC 8–9)**:** A01K47/00 (Advanced/Invention); A01K47/00 (Core/Invention)

**International class** (IPC 1–7)**:** A01K49/00

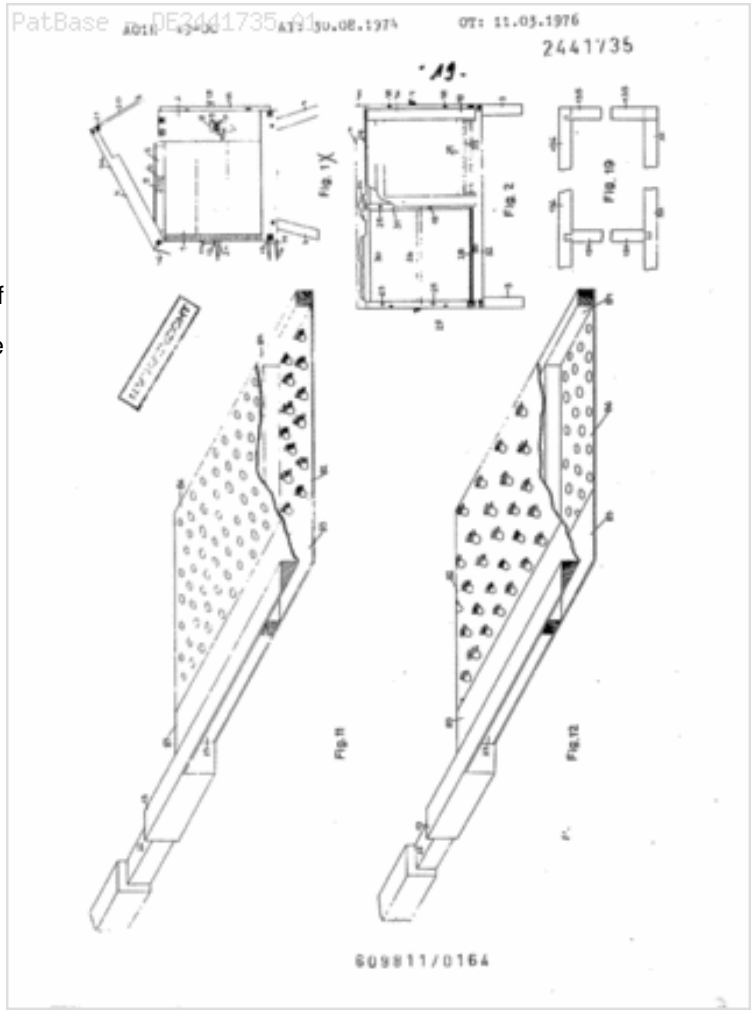
**CPC:** A01K47/00

**European class:** A01K47/00

Classification Explorer

**Forward Citations:** DE202012007392,

**Abstract:**
Source: DE2441735A1
PATENTANSPRRUeCH
Doppelbeute−Eienenkasten fuer die industrielle Honigerzeugung und Aufzucht von Hieneri, dadurch gekennzeichnet, dass er derart ausgebildet ist, dess er von oben und von hinten geoeffnet werden kann, ohne die Kastenstabilitaet zu zerstoeren, und dass die Rahmentraeger (45, 62) zur Aufnehme der Waben nach hinten ausfahrbar angeordnet sind UNTERANSPRUECHE 1. Known types of beehive for high production on fixed sites are too unwieldy for convenient transport. The hive has two doors, each with a ventilation flap at the top and stands on legs that fold away flat. A flat roof has a hinged weatherboard in front and a long hasp at the back, fitting over a staple on the central partition so that a single padlock fastens roof and doors. In the upper part is a main feed tray with a cover and ventilation openings in its side frame. A horizontal partition divides the main (front) and auxiliary (back) sections into two floors.



0) US2015140897A – STACKABLE PACKAGE AND SYSTEM FOR HOLDING AND TR...

**10) Family number: 59285273** (US2015140897A) © PatBase

**Title:** STACKABLE PACKAGE AND SYSTEM FOR HOLDING AND TRANSPORTING HONEYBEES

**Priority:** US20130906161P 20131119 US20140547766 20141119

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| US2015140897 AA | 20150521 | US20140547766 | 20141119 |

**Probable Assignee:** CLAERHOUT BRYAN S

**Assignee(s):**(std)**:** CLAERHOUT BRYAN S ; LINDER CHARLES

**Inventor(s):**(std)**:** CLAERHOUT BRYAN S ; LINDER CHARLES

**International class** (IPC 8–9)**:** A01K47/06 A01K49/00 A01K53/00 (Advanced/Invention)

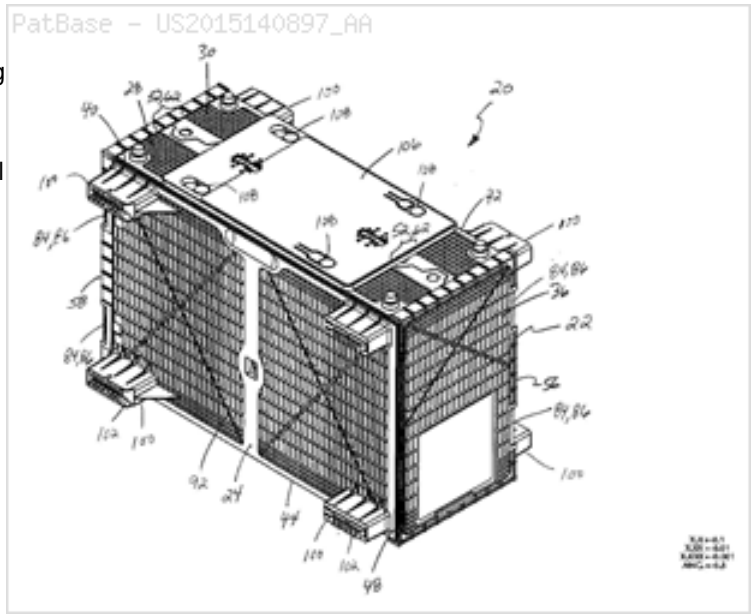
**CPC:** A01K49/00

**US class:** 449/27 449/28 449/9

Classification Explorer

**Cited documents:** WO07004315 A1, US7845508 BB, US7721566 BA, US5211597 A, US4718134 A, US4524476 A, US4508237 A, US4497433 A, US4402099 A, US3760970 A, US3478722 A, US32357 A, US2522511 A, US2015076143 AA, US2014295733 AA, US2014290660 AA, US2013146591 AA, US2013005216 AA, US2012031897 AA, US2011306272 AA, US2008121188 AA, US2006037554 AA, US2005145192 AA, US1556254 A, US1482468 A, US1353137 A,

**Abstract:**
Source: US2015140897A A package and system for holding and transporting small living beings, particularly, insects such as honeybees and the like, configurable in a robust, sturdy three–dimensional shape for handling and transport by mail and commercial carriers, which prevents stinging from within the package, allows escape of smaller accompanying insects such as hive beetles, is interlocking with others of the packages and strong enough to support other packages and items thereon; that provides for air flow through and about the package for heat dissipation for proper honeybee environment; that accommodates food and separately carrying a queen bee; and that can be easily and quickly broken down into a non–operational, generally flat configuration for initial sale, transport, and storage.



0) US5549197A – WRAP–AROUND CARRIER WITH BOTTLE NECK RETAINER T...

**11) Family number: 20459070** (US5549197A) © PatBase

**Title:** Wrap–around carrier with bottle neck retainer tabs

**Priority:** US19940352461 19941209 WO1995US14359 19951102

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| AR000306 A1 | 19970618 | AR19950334544 | 19951207 |
| AT233697 E | 20030315 | AT19950939776T | 19951102 |
| AU199641465 A1 | 19960626 | AU19960041465 | 19951102 |
| AU694591 B2 | 19980723 | AU19960041465 | 19951102 |
| BRPI9506381 A | 19970916 | BR1995PI06381 | 19951102 |
| CA2181053 AA | 19960711 | CA19952181053 | 19951102 |
| CA2181053 C | 20070327 | CA19952181053 | 19951102 |
| CL1995001883 A1 | 19961004 | CL19950001883 | 19951206 |
| CO4370112 A1 | 19961007 | CO19950057774 | 19951205 |
| DE69529814 D1 | 20030410 | DE19956029814 | 19951102 |
| DE69529814 T2 | 20030828 | DE19956029814T | 19951102 |
| EP0740629 A1 | 19961106 | EP19950939776 | 19951102 |
| EP0740629 A4 | 20001227 | EP19950939776 | 19951102 |
| EP0740629 B1 | 20030305 | EP19950939776 | 19951102 |
| ES2194064 T3 | 20031116 | ES19950939776T | 19951102 |
| FI962266 A | 19960610 | FI19960002266 | 19960530 |
| FI962266 A0 | 19960530 | FI19960002266 | 19960530 |
| IL116298 A0 | 19960331 | IL19950116298 | 19951208 |
| JP3808503 B2 | 20060816 | JP19960517585T | 19951102 |
| JP9509126 T2 | 19970916 | JP19960517585T | 19951102 |
| KR19960704774 A | 19961009 | KR19960701376 | 19960316 |
| MX9504997 A1 | 19970329 | MX19950004997 | 19951130 |
| NO963310 A | 19961003 | NO19960003310 | 19960808 |
| NO963310 A0 | 19960808 | NO19960003310 | 19960808 |
| NZ296769 A | 19980325 | NZ19950296769 | 19951102 |
| US5549197 A | 19960827 | US19940352461 | 19941209 |
| WO9617781 A1 | 19960613 | WO1995US14359 | 19951102 |
| ZA9510446 A | 19960619 | ZA19950010446 | 19951208 |

**Probable Assignee:** RIVERWOOD INT CORP

**Assignee(s):**(std)**:** RIVERWOOD INT CORP

**Assignee(s):** RIVERWOOD INT ; GRAPHIC PACKAGING INT ; RIVERWOOD INT CORP ATLANTA ; CHEMICAL BANK ADMINISTRATIVE AGENT AS ; GRAPHIC PACKAGING INT INC ; JPMORGAN CHASE BANK ADMINISTRATIVE AGENT AS ; RIVERWOOD INT CORPORACION DEL ESTADO DE DELAWARE CORP ; RIVERWOOD INT USA INC ; SUTHERLAND ROBERT L ; BANK OF AMERICA NA ; BANK OF AMERICA NA ADMINISTRATIVE AGENT AS ; CHASE MANHATTAN BANK ; CHASE MANHATTAN BANK ADMINISTRATIVE AGENT AS

**Inventor(s):**(std)**:** ROBERT L SUTHERLAND ; ROBERT SUTHERLAND ; SUTHERLAND ROBERT ; SUTHERLAND ROBERT L

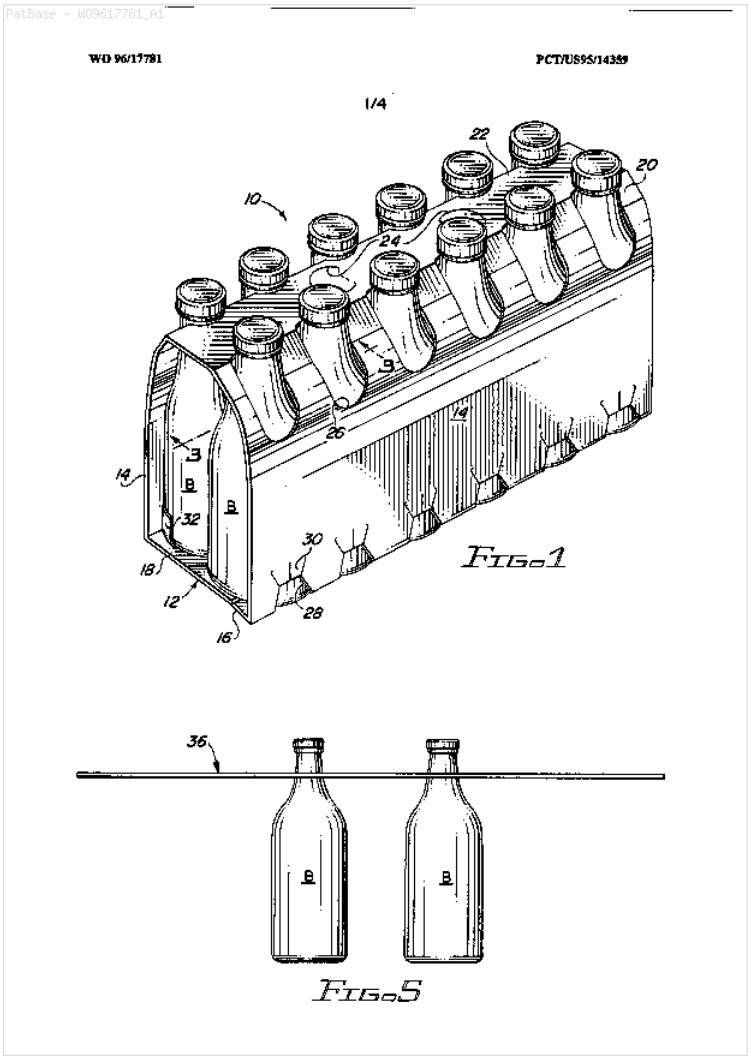
**Inventor(s):** L SUTHERLAND ROBERT

**Agent(s):** PHILLIPS ORMONDE FITZPATRICK; MACRAE AND CO; VILLASECA; XIMENA CASTELLANOS ABONDANO

**Designated states:** AT AU BE BR CA CH DE DK ES FI FR GB GR IE IT JP KR LI LU MC NL NO NZ PT SE

| | |
|---|---|
| **International class (IPC 8–9):** | B65D1/38 B65D5/02 B65D5/36 B65D5/46 B65D71/00 B65D71/12 B65D71/18 B65D71/20 B65D75/00 (Advanced/Invention); B65D5/36 B65D67/02 B65D71/02 (Advanced/Non–invention); B65D1/00 B65D5/36 B65D71/00 B65D71/06 (Core/Invention) |
| **International class (IPC 1–7):** | B65D1/38 B65D5/02 B65D5/36 B65D5/52 B65D71/00 B65D71/18 B65D71/26 |
| **CPC:** | B65D71/20 B65D2571/0016 B65D2571/00172 B65D2571/00271 B65D2571/00277 B65D2571/00444 B65D2571/0066 B65D2571/00716 |
| **European class:** | B65D71/00C1A1B B65D71/20 L65D571/00Y1A3A L65D571/00Y1A3B L65D571/00Y2A1B L65D571/00Y2A2 L65D571/00Y4A1 L65D571/00Y6A1 L65D571/00Y7A |
| **US class:** | 206/158 206/434 |
| Classification Explorer | |
| **Cited documents:** | US4533047 A, US4498582 A, US4463852 A, US4300680 A, |
| **Forward Citations:** | WO15143128, WO15105833, WO12058511, WO12058511, WO12054326, WO12054326, WO02081323, WO0037331, US9573744, US9499319, US9487320, US9481501, US9422093, US9376250, US9352890, US9346574, US9346573, US9284084, US9233769, US9205939, US9199774, US9073683, US9022217, US8978889, US8511467, US8424677, US8261909, US8245844, US7699163, US7374038, US7175020, US7083046, US6527108, US6295789, US6158586, US6105774, US2015191284, US2014158561, US2011068044, US2006231441, US2005199514, US2004079666, GB2371040, EP2632818, EP1339613, EP1064206, CN103459262, CN103459262, CN103201188, CN103201188, |

**Abstract:**
Source: US5549197A A wrap–around carrier for packaging necked bottles. Downwardly folded retaining flaps are connected to the transverse edges of bottle neck openings and engage opposite sides of an associated bottle neck to hold the bottle neck in place. Bottom retaining flaps may also be provided at the heel cutouts to hold the bottom portions of the bottles in place.



**12) Family number: 656376** (BRMU6601238U) © PatBase

**Title:** COBERTURA DE COLMEIA BEEHIVE COVERAGE (Machine translation)

**Priority:** BR1986MU01238U 19860728

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| BRMU6601238 U | 19861014 | BR1986MU01238U | 19860728 |

**Probable Assignee:** JOAO PEDRO COSTA ANDRE

**Assignee(s):**(std)**:** JOAO PEDRO COSTA ANDRE ; LICINIO COSTA ANDRE

**Inventor(s):**(std)**:** ANDRE JOAO PEDRO COSTA ; ANDRE LICINIO COSTA

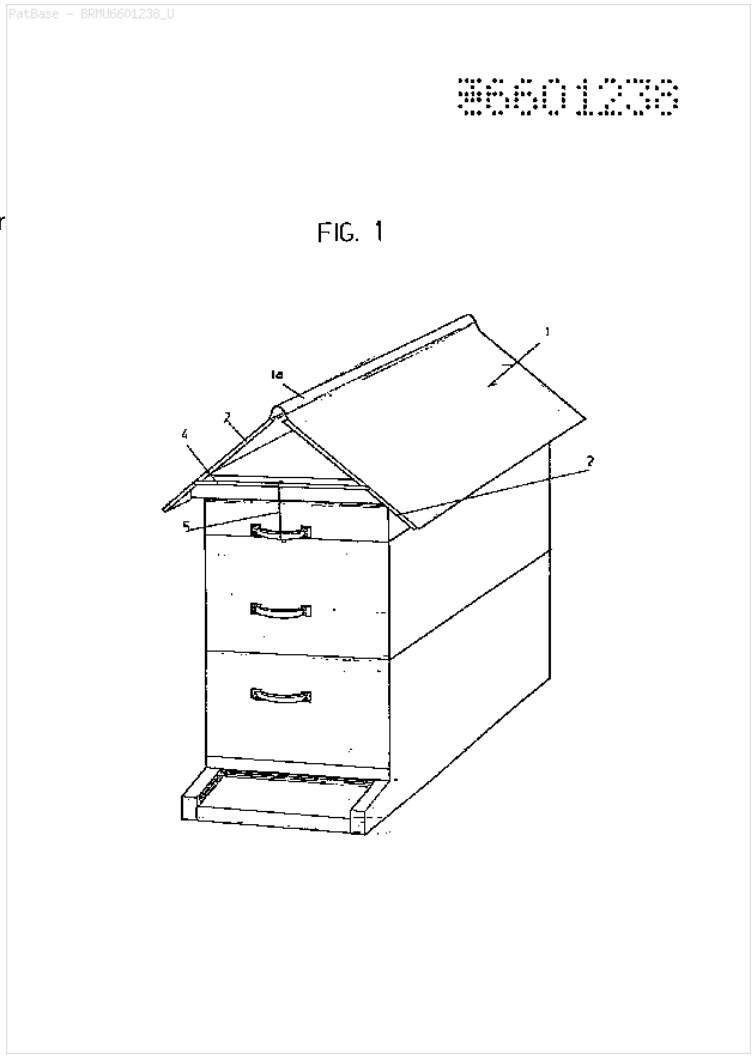
**Inventor(s):** JOAO PEDRO COSTA ANDRE ; LICINIO COSTA ANDRE

**International class (IPC 8–9):** A01K47/06 (Advanced/Invention); A01K47/00 (Core/Invention)

**International class (IPC 1–7):** A01K47/06

Classification Explorer

**Abstract:**
Source: BRMU6601238U m • B ss • ss • I I • « 111 ' ss «¦ ¦ S • ss ¦ • ••• III •!« ss ss • I • • I ¦ • • ss » I I ' I Ml M el •ss RESUMO Patente de Modelo de Utilidade de "COBERTURA DE COLMEIA", – constituida por uma chapa dobravel, com tirante para manter se aberta a ¦ a qual apoia–se e fixa–se a colmeia, por meio de 05 um gancho, podendo, portanto, ser removida, dobrada e facil_ mente transportada. M • B ss • ss • I • ' 111 ' ss ' ¦ ¦ S •... • • • • III •! ' ss ss • • • I ¦ • • ss ' I I ' I Ml M el • abstract patent of utility model of "BEEHIVE COVERAGE"–comprising a foldable plate with rod to keep open the ¦ which supports and secures the hive, through 05 1 hook and can therefore be removed, folded and easy _ mind transported.



0) DE441074A – ABTROMMELVORRICHTUNG FUER BIENENKOERBE

**13) Family number: 19369668** (DE441074A)

© PatBase

**Title:** ABTROMMELVORRICHTUNG FUER BIENENKOERBE

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| DE441074 A | 19270223 | | 00000000 |

**Probable Assignee:** HINRICH PETERS

**Assignee(s):**(std)**:** HINRICH PETERS

**International class (IPC 8–9):** A01K55/00 (Advanced/Invention); A01K55/00 (Core/Invention)

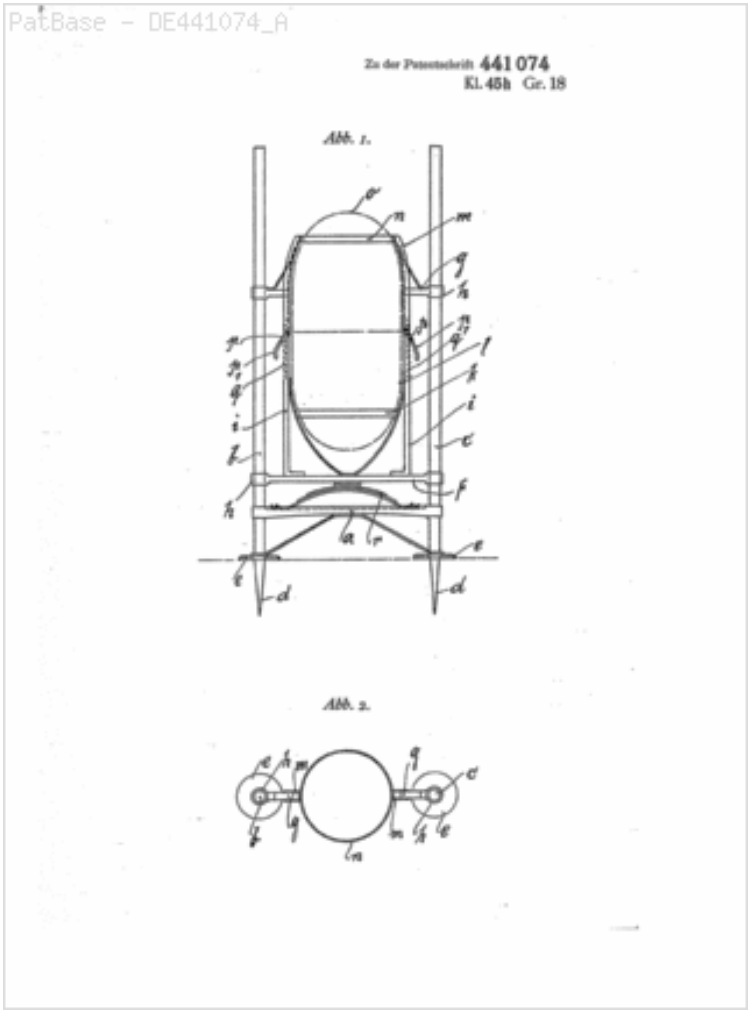
**International class (IPC 1–7):** A01K51/00

**CPC:** A01K55/00

**European class:** A01K55/00

Classification Explorer

**Abstract:**
Source: DE441074A [Source: Claim 1] 1. **WARNUNG** Anfang CLMS Feld konnte Ende DESC uberlappen **. Abtrommelvorrichtung f r Bienenkoerbe. Zum Abtrommeln von Bienenkoeriben ist es notwendig, einen gefuellten und leeren Korb miteinander zu verbinden und dann diese genau senkrecht mehrfach auf den Boden zu schlagen, so da~ die Bienen in den unteren leeren Korb gelangen und der obere Korb frei wird. Das Abtrommeln von Bienen– koerben macht viel Muehe und erfordert grossen Kraftaufwand, weil ein vielfaches Anheben der schweren Bienenkorbe notwendig ist. Die vorliegende Erfindung ist eine Abtrommelvorrichtung fuer Bienenkoerbe, durch die das Abtrommeln von Koerben ausserordentlich erleichtert wird. Der leere und der gefuellte Korb werden uebereinander in einem Schlitten befestigt und dann durch Auf–und Abwaertsbewegen der Koerbe ein Abtrommeln bewirkt. Die Erfindung besteht darin, daB die Bienenkoerbe in einem an zwei senkrechten Gleitstangen gefuehrten Schlitten gehalten und durch Auf–und Abwaertsbewegen ausgetrommelt werden. Neu ist auch, da~ der Schlitten zweiteilig ist und die beiden Teile durch Klammern, B gel o. dgl. miteinander verspannt werden koennen. Ein weiteres Merkmal besteht darin, da~ das Gestell auf ein elastisches Kissen, beispielsweise einen durch Blattfedern gebil– deten Puffer, einwirkt. Die Erfindung l~t sich in verschiedener Weise ausfuehren. Sie ist in der Zeichnung in einem Ausfuehrungsbeispiel dargestellt, und zwar zeigt Abb. i eine Seitenansicht der Vorrichtung, Abb. 2 einen Grundri~. Die Vorrichtung besteht aus zwei durch die Traverse a verbundenen Gleitstangen b, c, die am unteren Ende mit Spitzen d versehen sind und Abstuetzteller e tragen. Auf den Gleitstangen b, c ist ein zweiteiliger Schlitten verschiebbar, der aus den beiden Traversen f und g besteht, die mit ihren Huelsen h auf den Gleitstangen verschiebbar sind. Die untere Traversea besitzt Fuehrungsschienen i sowie Halteringe k und dient zum Halten des unteren leeren Bienenkorbes l. Die obere Traverseg besitzt ebenfalls Schienen w, die in den Haltering n endigen. Dieser Teil dient zum Halten des oberen gefuellten Korbes o. Der obere Korb o wird auf den unteren leeren Korb 1, nachdem dieser in den unteren Teil des Schlittens/, i, k eingesetzt ist, auf gesetzt. Dann wird die



obere Traverse so weit nach unten. gefuehrt, dass der obere Korb o fest gegen den unteren angedr ckt ist. Dabei fassen die zweckmaessig U−foermig ausgefuehrten Schienen in ueber die Fuehrungs schienen i. Die Verbindung beider Koerbe ge schieht leicht auswechselbar durch Klammern oder umlegbare Buegelp, die als Spannhebel ausgefuehrt sein koennen. Zu diesem Zwecke @ sind die unteren Schienen i mit Zahnleisten q versehen, in die die an den Buegeln p drehbar @ angebrachten Sperrklinken p1 einfassen; da durch wird ein festes Aneinanderdruecken der beiden Koerbe bewirkt. Um nun nach Moeglichkeit das wiederholte e Anheben der abzutrommelnden schweren X. be zu vermeiden, ist zwischen der unteren Traverse a und der S. chlittentraverse/ein e] astisches Kissen, beispielsweise ein durch Blattfedern r gebildeter Puffer, zwischen geschaltet. Man braucht nun nur einmal die schweren, in dem Schlitten eingespannten Koerbe anzuheben und sie mit Schwung nach unten zu schieben. Durch die Federwirkung werden ¦ sie dann wieder hochgeschleudert. Um ein genuegendes Abtrommeln zu erzielen, braucht man dann immer nur die Ab−, waertsbewegung des die Koerbe haltenden Schlittens zu beschleunigen. An Stelle von Blattfedern koennen natiir− lich auch Schraubenfedern oder andere elas tische Kissen, evtl. auch Luftpuffer Anwendung finden. PATENTANSPR~CHE: I. Abtrommelvorrichtung f r Bienen koerbe, gekennzeichnet durch einen die Bienenkoerbe aufnehmenden Schlitten, der an zwei senkrechten Gleitstangen gefuehrt ist und unten auf einen Puffer aufstoesst. [Source: Claim 1] . 1 ** WARNING ** Prime CLMS field could end DESC overlap **. Abtrommelvorrichtung f r Bienenkoerbe. For Abtrommeln of Bienenkoeriben it is necessary to connect a filled and empty basket together and then they hit exactly perpendicular repeatedly to the ground, so that ~ the bees get into the lower empty basket and upper basket is free. BASKETS The Abtrommeln of bees makes lot of effort and requires great force, because many times lifting the heavy beehives is necessary. The present invention is a Abtrommelvorrichtung for Bienenkoerbe through which the Abtrommeln of baskets is greatly facilitated. The empty and stuffed basket are one above the other held in a carriage and then effected by up−and Abwaertsbewegen the baskets a Abtrommeln. The invention is to be Dab Bienenkoerbe held in a guided on two vertical slide bars and slide out drumming by up−and Abwaertsbewegen. Also new is because ~ the carriage is in two parts and the two parts by parentheses, B gel o. The like. Can each be clamped. Another feature is that ~ the frame on a resilient pad, for example, an integration, which by leaf springs Deten buffer acts. The invention l ~ t be carried out in various ways. It is shown in the drawing in a Ausfuehrungsbeispiel, specifically shown in Fig. I is a side view of the device, Fig. 2 a Grundri ~. The apparatus consists of two connected by the traverse a slide bars b, c, which are provided at the bottom with lace and d carry outrigger floats e. On the slide bars b, c a two−part slide is displaced, the f and g is that h with their pods on the slide bars are displaced from the two crossbars. The lower Traversea has bearings Guideways i and retaining rings k and serves to hold the lower empty hive l. The upper rails also has Traverseg w, the retaining ring in the terminate n. This part serves to hold the upper basket filled o. The upper basket o is set to the lower empty basket 1 after it is used k in the lower part of the carriage /, i, in. Then the upper spreader as far downward. led that the upper basket is o firmly against the lower angedr ckt. Here The functional U−shaped rails EXPORTED put in over the guide rails i. The connection of the two baskets ge happens easily replaceable by brackets or foldable Buegelp that can be executed as a clamping lever. For this purpose @ the lower rails are provided with toothed ridges i q, in which frame the ironing at the p @ rotatably mounted ratchets p1; there by causing a solid Aneinanderdruecken the two baskets. To avoid now by opportunity repeated e lifting the heavy abzutrommelnden X. be, is between the lower cross member and a p chlittentraverse / ae] astisches cushion, for example, a connected by leaf springs r educated buffer between. We need now only once to lift the heavy, clamped in the slide baskets and to push them to swing down. By the spring action will | then thrown back. In order to achieve a sufficient Abtrommeln, then you need only the distance to accelerate waertsbewegung of the baskets holding the carriage. Instead of leaf springs can natiir− Lich also coil springs or other elas tables cushion, possibly also find air buffer application. Patent claims ~ CHE: I. Abtrommelvorrichtung f r beehives, characterized by the Bienenkoerbe receiving carriage led to two vertical slide bars and regurgitates a buffer below.

0) RU154001U – BEEHIVE (MACHINE TRANSLATION)

**14) Family number: 60046380** (RU154001U) © PatBase

**Title:** Beehive (Machine translation)

**Priority:** RU20150115951U 20150427

**Family:**

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**Probable Assignee:** OFFENDS SERGEY

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**International class (IPC 8–9):** A01K47/00 (Advanced/Invention)

Classification Explorer

**Abstract:**
Source: RU154001U 1. Bee hive, comprising a housing which has walls and a diaphragm adapted to arbitrary spatial displacement relative to each other and forming, located on the two opposite sides of four nucleus, each of which is taken three nukleusnyh frame, characterized in that the used housing standard 12–frame hive Dadant, partitions arranged to generate between them with the other opposite sides of the hive two additional cores and nukleusnaya frame is formed as a section of the three–section folding box, the size of which in the expanded form is the size of a standard frame Dadant, the adjacent section frames are connected with the possibility of overlapping side sections on opposite sides of the middle sektsii.2. Bee hive of claim. 1, characterized in that the three–section foldable framework sections connected plastic rubber ribbon.

**15) Family number: 30269808** (US5228442A) © PatBase

**Title:** METHOD FOR MAPPING, ABLATION, AND STIMULATION USING AN ENDOCARDIAL CATHETER

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US19940223111 19940405 US19940272944 19940711 US19930104738 19930811
US19940182635 19940114 US19940222902 19940405 US19940290391 19940815
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US19930127699 19930928 WO1993US11193 19931118 WO1994US07070 19940622
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**CPC:** A61B5/6855 A61N1/3605 A61N1/3622 A61N1/36014 A61B18/14 A61B5/6858 A61B5/0422 A61B5/6853 A61B5/6859 A61B18/00 A61B18/08 A61B18/1402 A61B18/1492 A61B2017/00292 A61B2017/00867 A61B2017/22038 A61B2018/00083 A61B2018/00107 A61B2018/0016 A61B2018/00214 A61B2018/00267 A61B2018/00351 A61B2018/00357 A61B2018/00577 A61B2018/00839 A61B2018/00869 A61B2018/0091 A61B2018/00916 A61B2018/00946 A61B2018/124 A61B2018/1253 A61B2018/126 A61B2018/1435 A61B2018/1467 A61B2562/0209 A61B2562/043 A61N1/056 C08L2201/12 Y10T29/49222 Y10T29/49877 A61B2090/3966

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**US class:** 128/642 128/786 29/454 29/884 600/372 600/373 600/374 600/375 600/393 600/395 600/585 607/116 607/119 607/122 607/126 607/127 607/130

Classification Explorer

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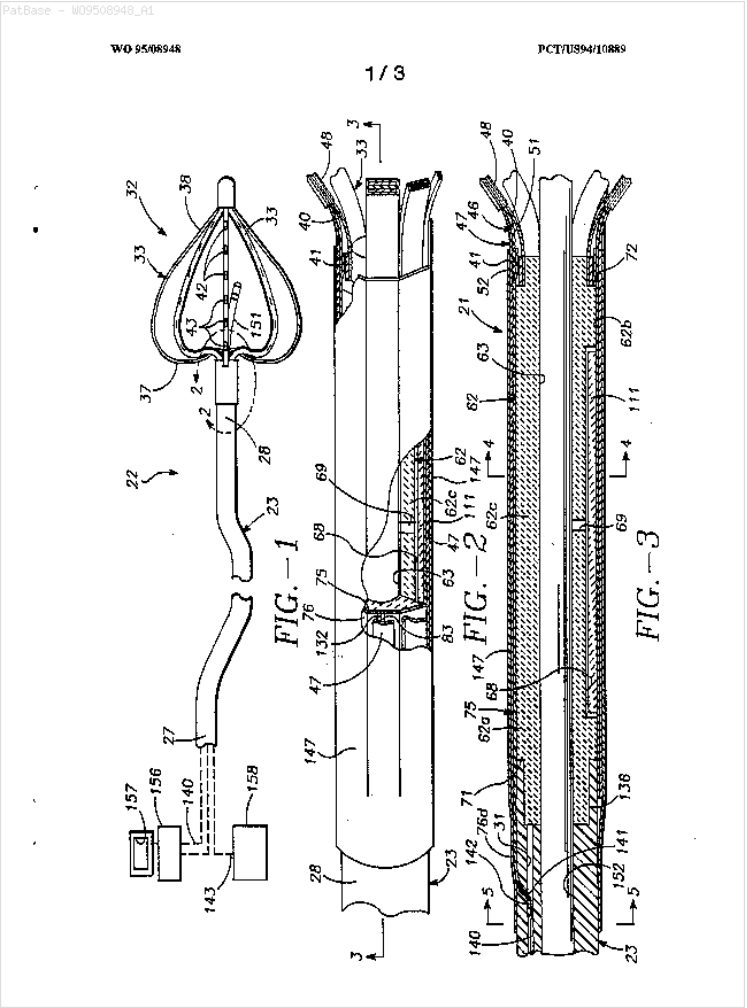
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**Abstract:**
Source: US5228442A Endocardial mapping and/or ablation system for introduction into a chamber of the heart formed by a wall by passage through a lumen leading to the chamber in the heart having blood therein comprising a catheter probe with proximal and distal extremities and having an elongate tubular member with at least one lumen extending therethrough extending the length thereof and with a distal extremity. A plurality of longitudinally and radially spaced apart electrodes are provided. An expandable device is secured to the distal extremity of the flexible elongate tubular member and is movable between a contracted position and an expanded position. The electrodes are mounted on the expandable device whereby when the expandable device is moved to the expanded position in a chamber of the heart the electrodes are moved into engagement with the wall forming the chamber of the heart in which the expandable device is disposed. An elongate element is coupled to the expandable device for moving the expandable device between the contracted and expanded positions. The expandable device has spaces therein through which the blood can flow when the expandable device is in an expanded position. Leads are in contact with the electrodes and extending through the flexible elongate tubular member. Electrical apparatus is connected to the leads for performing electrical functions with respect to the electrodes.



**16) Family number: 33586441** (CA2505778A) © PatBase

**Title:** MULTI–PURPOSE OCST TENTS

**Priority:** CA20052505778 20050420

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| CA2505778 AA | 20061020 | CA20052505778 | 20050420 |

**Probable Assignee:** ALIGHANBARI ABBAS

**Assignee(s):**(std)**:** ALIGHANBARI ABBAS

**Inventor(s):**(std)**:** ALIGHANBARI ABBAS

**International class (IPC 8–9):** A01G9/16 E04H15/00 E04H15/20 E04H15/30 E04H15/32 (Advanced/Invention); A01G9/16 E04H15/00 E04H15/20 E04H15/32 (Core/Invention)

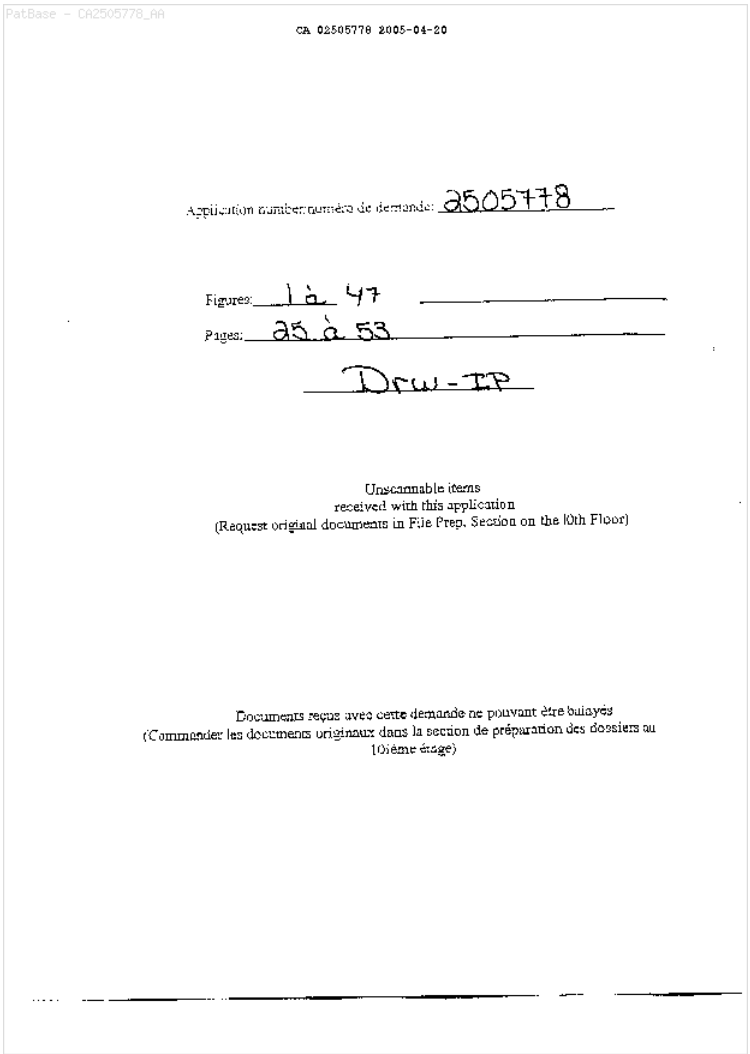
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**European class:** A01G13/04B A01G9/16 E04H15/28 E04H15/30 E04H15/40 E04H15/42A E04H15/50

Classification Explorer

**Forward Citations:** WO15079085, GB2494863,

**Abstract:**
Source: CA2505778A Modern Outdoor Cold/Cool Season Sun–Tanning (OCST) tents have been introduce d. The main purpose of such tents is to provide heat protection for a sun–tanner in cold or cool weather condition. These tents are made by applying modifications on modern camping tents, and hence they enjoy structural advances of modern tents, therefore they are collapsible, low–weight, user– friendly, flexible, strong, stylish and likeable. With special covers, named OCST covers, sheets, and flies, such tents are convertible and can be used for both camping and s un– tanning in all seasons.



0) US2008289230A – ELECTRONIC GREETING CARDS

**17) Family number: 42586420** (US2008289230A) © PatBase

**Title:** ELECTRONIC GREETING CARDS

**Priority:**

CA20152914034 20151203 CA20172914034 20170106 US20070001098 20071210
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**Family:**

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ANNIE ; ALTMAN BRIAN ; AMERICA GREETINGS CORP ; AMERICAN GREETINGS ; FORD GLOBAL TECH LLC ; FORD GLOBAL TECHNOLOGIES INC ; TAYLOR ANASTASIA ; TALBOT JOHN ; NELSON GARY ; TALBOT JOHNATHAN ; MURI THERESA ; SHLONSKY LYNNE ; MILLER CAROL ; MATOUSEK ROB ; PYNE DAWN ; ROTH ROB ; SPEEK KATALINA ; SAPP MELISSA ; TASSE CATHERINE ; SHINGLETON TOBY ; WEST HARRY ; ZHANG COCO ; TASSE CATHY ; SPECK KATALINA ; MCCLAIN MARY ; MAYER DAVID ; BUDZAR LAUREN M ; BUDZAR LAUREN ; QIAO TIGER ; SAPP DAVID

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**Inventor(s):** BEGIN ANTHONYUS ; ANTHONY BEGIN ; COUGHLIN SHEILAUS ; SHEILA COUGHLIN

**Agent(s):** CALLINANS; FISHER ADAMS KELLY CALLINANS; RIDOUT AND MAYBEE LLP; ROETZEL AND ANDRESS; KING AND SPALDING LLP; KING AND SPALDING; JAMES C SCOTT ROCTZEL AND ANDRESS; JAMES C; CHRISTINE A; CHRISTINE

**International class (IPC 8–9):** A43C3/00 A44C3/00 A45C3/00 A63H29/22 A63H33/00 A63H33/26 A63H33/38 A63H37/00 A63H5/00 B06B1/00 B42D15/00 B42D15/02 B42D15/04 B65D25/10 B65D33/00 B65D33/12 B65D43/02 B65D73/02 C01B33/107 D04D7/00 D04D9/00 F01P11/00 F16M11/04 F16M11/40 F28D1/00 F28D1/03 F28D9/00 F28F1/06 F28F13/12 F28F3/02 F28F3/08 F41B7/00 G06F1/00 G06F19/00 G06Q30/00 G09F1/00 G09F1/02 G09F1/04 G09F1/06 G09F1/08 G09F1/10 G09F1/14 G09F11/00 G09F13/22 G09F19/02 G09F27/00 G09F9/00 G09G1/00 H02P1/00 (Advanced/Invention); A63F3/00 A63F9/00 A63H33/22 B42D15/04 B42D25/20 G09F1/08 G09F19/08 H04R1/02 (Advanced/Non–invention); B65D73/02 G06Q30/00 G09F1/00 G09F27/00 G09F9/00 (Core/Invention)

**CPC:** G09F27/00 G09F19/02 F41B7/00 A63F2003/00233 A63F2003/00299 A63F2009/0036 A63F2009/0039 A63H33/38 A63H37/00 F21V23/0442 B65D5/425 F21V33/00 B42P2241/06 G09F1/02 A45C3/04 A45C15/00 B65D2203/12 G09F2027/002 G06Q30/02 G06Q30/0215 G06Q30/0601 G09F1/12 G09F9/30 B42P2241/12 G09F1/06 A44C3/001 B42D25/285 B42D15/0093 G09F1/08 B65D33/12 G09F1/00 G09F19/00 B42D15/00 B65D33/004 G09F1/04 B42D15/02 A63H33/22 G09F19/08 H04R1/028 H04R2400/00 F16M11/40 F16M11/041 G09F1/14 B42D15/04 F28F3/08 F28D1/05366 F28D2021/0094 F28F1/126 F28F13/12 B65D33/00 C01B33/10778 B42D15/027 B42D15/042 F21Y2115/10 B65D25/101 B65D43/02 B42D15/022 B42D15/045

**European class:** B42D15/02C B42D15/02E B42D15/04B B42D15/04C G06Q30/02 G06Q30/0215 G06Q30/0601 G09F1/00 G09F1/06 G09F1/08 G09F27/00 L42D15/04B L42P241/12 S09F27/00B

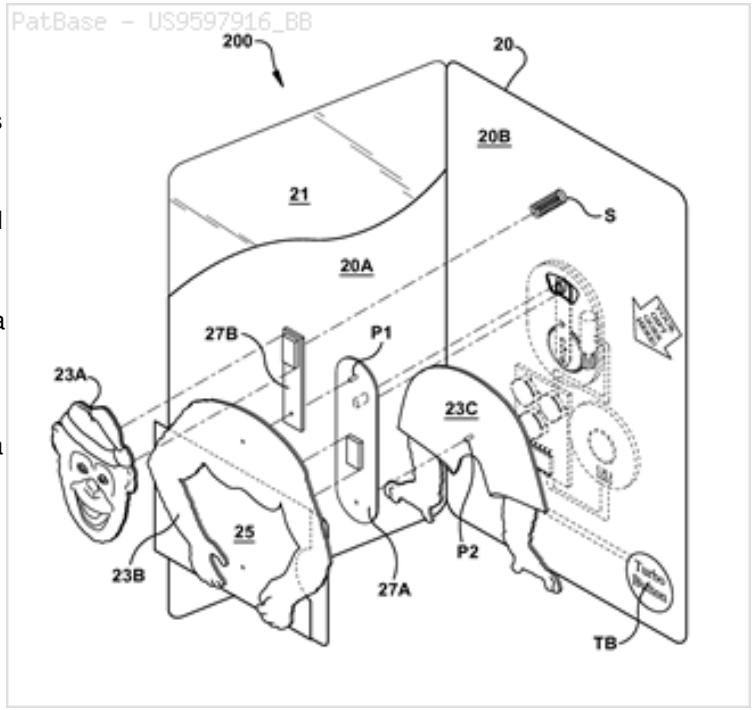
**US class:** 1/1 12/206 165/166 2/206 206/751 248/622 248/623 281/15.1 383/105 383/109 383/6 40/124.01 40/124.010S 40/124.02 40/124.03 40/124.030P 40/124.04 40/124.06 40/124.060P 40/124.08 40/124.09 40/124.090S 40/124.11 40/124.12 40/406 40/409 40/411 40/414 40/421 40/423 40/429 40/446 40/455 40/463 40/463P 40/491 40/538 40/547 40/717 401/240.3 446/148 446/149 446/150 446/297 446/298 446/299 446/81 705/1 705/14 705/14.17 705/14.170P 705/26.1 705/26.100S 705/27 705/27S D19/1

**Cited documents:** WO8502376 A1, WO10013062 A1, WO10013061 A1, WO09127858 A1, WO08028404 A1, WO05044413 A1, USD643061 S1, USD642613 S1, USD642612 S1, USD641779 S1, USD538855 S1, USD529044 S1, USD317623 S1, US9044990 BB, US8745905 BB, US8726547 BB, US8601726 BB, US8595961 BB, US8584385 BB, US8499478 BA, US8490306 BB, US8490305 BB, US8448361 BB, US8341858 BB, US8322058 BB, US8256150 BB, US8250790 BB, US8230624 BB, US8205365 BB, US8176663 BB, US8171661 BB, US8126782 BA, US8052534 BB, US8032376 BA, US8025151 BA, US8011122 BB, US7971376 BB, US7913968 BB, US7905416 BB, US7882651 BB, US7867055 BB, US7861441 BA, US7856744 BB, US7840017 BB, US7810719 BB, US7806745 BB, US7802386 BB, US7734719 BB, US7722431 BB, US7707757 BB, US7694445 BB, US7680705 BB, US7634864 BB, US7633232 BB, US7606734 BB, US7603802 BB, US7600336 BB, US7552553 BB, US7512552 BB, US7508393 BB, US7503482 BB, US7478143 BA, US7416467 BB, US7398252 BB, US7370076 BB, US7356950 BA, US7356154 BA, US7349532 BB, US7322134 BB, US7308413 BA, US730357 A, US7300178 BB, US7266533 BB, US7240442 BB, US7222797 BB, US7211305 BB, US7201402 BB, US7152350 BB, US7147047 BB, US7130817 BB, US7127841 BA, US7125142 BB, US7080473 BB, US7055091 BA, US7025478 BA, US7008289 BB, US7003479 BB, US6980318 BA, US6966135 BA, US6965912 BB, US6922673 BB, US6869369 BB, US6848965 BB, US6845583 BB, US6844815 BB, US6827812 BB, US6796872 BB, US6766363 BA, US6752891 BB, US6726572 BA, US6719443 BB, US6705387 BB, US6692331 BA, US6679032 BB, US6652351 BA, US6643964 BA, US6643961 BA, US6640473 BA, US6594644 BA, US6574604 BA, US6567273 BA, US6532691 BB, US6524674 BA, US6523285 BA, US6502338 BA, US6491516 BA, US6484425 BA, US6461705 BB, US6460277 BA, US6453300 BB, US6360254 BA, US6357152 BA, US6322421 BA, US6312310 BA, US6282819 BA, US6249278 BA, US6219949 BA, US6213196 BA, US6192407 BA, US6185851 BA, US6092054 A, US6090461 A, US6084569 A, US6080067 A, US6061938 A, US6058640 A, US6055573 A, US6050714 A, US6039453 A, US6038812 A, US5988684 A, US5956682 A, US5938199 A, US5936521 A, US5913615 A, US5845425 A, US5841878 A, US5829863 A, US5822801 A, US5816320 A, US5793972 A, US5778574 A, US5748082 A, US5743035 A, US5680718 A, US5671555 A, US5652606 A, US5641164 A, US5640459 A, US5577918 A, US5575098 A, US5549940 A, US5543678 A, US5513117 A, US5510828 A, US5509746 A, US5504836 A, US5464681 A, US5442567 A, US5439230 A, US5433035 A, US5426594 A, US5423139 A, US5412890 A, US5366074 A, US5303487 A, US5275285 A, US5257823 A, US5195918 A, US5184110 A, US5139454 A, US5138779 A, US5135426 A, US5063698 A, US5055084 A, US5025580 A, US5024011 A, US5022681 A, US4934079 A, US4870764 A, US4774780 A, US4748756 A, US4670820 A, US4611262 A, US4592573 A, US4531319 A, US4425724 A, US4407504 A, US4377049 A, US4363081 A, US4299041 A, US4272915 A, US4203516 A, US4200222 A, US4186519 A, US4070819 A, US4055014 A, US4011674 A, US3946508 A, US3811613 A, US3757934 A, US3726032 A, US3572712 A, US3462157 A, US3430761 A, US3286383 A, US3246897 A, US3235988 A, US3191340 A, US3061971 A, US3045979 A, US2927400 A, US2884724 A, US2844898 A, US2817916 A, US2742287 A, US2736115 A, US2647731 A, US2557242 A, US2524965 A, US2504277 A, US2389606 A, US2295430 A, US2045864 A, US2015279241 AA, US2015279240 AA, US2015224808 AA, US2013269225 AA, US2013232828 AA, US2013192104 AA, US2013139419 AA, US2013139417 AA, US2013133232 AA, US2013104430 AA, US2013097899 AA, US2013074380 AA, US2013000165 AA, US2012317850 AA, US2012304510 AA, US2012273182 AA, US2012266503 AA, US2012192467 AA, US2012110879 AA, US2012048766 AA, US2012000101 AA, US2012000100 AA, US2011265356 AA, US2011214319 AA, US2011171879 AA, US2011167685 AA, US2011146126 AA, US2011146117 AA, US2011126437 AA, US2011101090 AA, US2011078931 AA, US2011074297 AA, US2011068016 AA, US2010325923 AA, US2010308981 AA, US2010296010 AA, US2010287800 AA, US2010287799 AA, US2010270946 AA, US2010263243 AB, US2010258286 AA, US2010250255 AA, US2010199530 AA, US2010175287 AA, US2010151830 AA, US2010085421 AA, US2010056021 AA, US2010052934 AA, US2010052876 AA, US2010050486 AA, US2010032936 AA, US2010024263 AA, US2009325640 AA, US2009318052 AA, US2009309303 AA, US2009308931 AA, US2009308924 AA, US2009305604 AA, US2009241387 AA, US2009238544 AA, US2009235563 AA, US2009217559 AA, US2009214802 AA, US2009211126 AA, US2009193249 AA, US2009176438 AA, US2009126242 AA, US2009126239 AA, US2009071046 AA, US2009050505 AA, US2009040878 AA, US2009036020 AA, US2009028382 AA, US2009007469 AA, US2008289230 AA, US2008254846 AA, US2008032587 AA, US2008021793 AA, US2007289184 AA, US2007284269 AA, US2007256337 AA, US2007215694 AA, US2007209243 AA, US2007207697 AA, US2007200000 AA, US2007193079 AA, US2007171278 AA, US2007169387 AA, US2007153638 AA, US2007124978 AA, US2007109780 AA, US2007068052 AA, US2007038716 AA, US2007011060 AA, US2006208062 AA, US2006184386 AA, US2006180647 AA, US2006150451 AA, US2006135037 AA, US2006134591 AA, US2006072779 AA, US2006064906 AA, US2006036503 AA, US2006032764 AA,

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**Forward Citations:** WO16050966, WO15155003, WO14176352, WO14151754, WO13017914, WO12021589, WO10135677, WO10076616, USD783721, USD780260, USD771744, USD770325, USD766363, USD765779, USD765139, USD762262, USD748466, USD739214, USD734143, USD732960, USD724659, USD723104, USD700237, USD700236, USD691194, USD684213, USD684212, USD684211, USD679755, USD679754, USD672806, USD661348, USD657817, USD655750, USD654113, USD652865, USD650437, USD649589, USD649588, USD647559, USD643060, USD642611, USD632734, USD632330, USD629459, USD629458, US9643443, US9635960, US9597916, US9592933, US9547869, US9545811, US9536690, US9533804, US9531803, US9521476, US9493024, US9491876, US9483786, US9481196, US9481195, US9475333, US9471144, US9469146, US9432017, US9415621, US9398086, US9382042, US9359111, US9355499, US9349272, US9339427, US9305474, US9305467, US9302818, US9300662, US9286295, US9248688, US9245209, US9227458, US9223538, US9216608, US9186928, US9186927, US9171404, US9158770, US9156300, US9153735, US9132599, US9129537, US9123059, US9108115, US9082207, US9061539, US9056517, US9044990, US9038291, US9031869, US9031618, US8977375, US8965022, US8955240, US8919018, US8915831, US8904678, US8887420, US8887419, US8887418, US8881439, US8870061, US8857082, US8850726, US8775130, US8773428, US8763286, US8763285, US8757479, US8752313, US8745905, US8739438, US8727210, US8727209, US8718716, US8695242, US8672427, US8661719, US8656076, US8644511, US8643874, US8601726, US8595961, US8490306, US8484029, US8448361, US8401682, US8393098, US8364295, US8341858, US8333379, US8322058, US8205365, US8174720, US8170706, US8160992, US8151023, US8125774, US8011122, US7983792, US7930047, US7753199, US2017043607, US2016144272, US2016114613, US2015363159, US2015339097, US2015309762, US2015283844, US2015268700, US2015266329, US2015251479, US2015197117, US2015174943, US2015172246, US2015170557, US2015156201, US2015123493, US2015054733, US2015019518, US2014358689, US2014325328, US2014313186, US2014297286, US2014263675, US2014259817, US2014237143, US2014197052, US2014150307, US2014143342, US2014088972, US2013316763, US2013312300, US2013305574, US2013283653, US2013255115, US2013239448, US2013232828, US2013211970, US2013192103, US2013177291, US2013167414, US2013159445, US2013139417, US2013133232, US2013126598, US2013125429, US2013125001, US2013086831, US2013036635, US2013023245, US2013000461, US2013000166, US2012276880, US2012271732, US2012212946, US2012178063, US2012031255, US2012022924, US2011319162, US2011311196, US2011272308, US2011265356, US2011232141, US2011209365, US2011199645, US2011181792, US2011167685, US2011153332, US2011119967, US2011119570, US2011116133, US2011106699, US2011067547, US2011066945, US2011033123, US2011026749, US2011004325, US2010325923, US2010306325, US2010296010, US2010280657, US2010185737, US2010174618, US2010149597, US2010142140, US2010115572, US2010110479, US2010098319, US2010052934, US2010052879, US2010052876, US2010052306, US2010050486, US2010005377, US2009326955, US2009282782, US2009265497, US2009207112, US2009165343, US2009158182, US2009070213, TWI469109, NL2004049, GB2538900, GB2537716, GB2536780, GB2531423, GB2531423, GB2525502, GB2525502, GB2523454, GB2523454, GB2522312, GB2522312, GB2520186, GB2518760, GB2518760, GB2513228, GB2487190, GB2481457, FR3026860, FR3015086, FR3006940, FR2947068, EP2973319, EP2340944, EP2204289, DE102008059689, CN104334361, BE1020857, BE1019938, BE1019632,

**Abstract:**
Source: US2008289230A Electronic greeting cards include a greeting card with two or more interconnected panels in combination with a digital multimedia player device which includes an electronic display and an audio output, and circuitry which is operative to receive, store and play digital multimedia files and content. The various greeting card structures cover and encapsulate or otherwise house and adorn the digital multimedia player. Digital files are loaded on to the digital multimedia player by a connection to a network, or directly from a data storage device such as an SD card or USB connection or compact flash which interfaces with a port in the digital multimedia player. Pre−recorded digital multimedia greeting card content is either pre−loaded on a portable data storage device, or selected for purchase and downloaded or transferred for replay by the digital multimedia player of the electronic greeting card.



0) FR2758237A – BEE KEEPERS AID FOR REMOVAL OF HONEY FRAMES PUP...

**18) Family number: 14277279** (FR2758237A) © PatBase

**Title:** Bee keepers aid for removal of honey frames

**Priority:** FR19970000324 19970110

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| FR2758237 A1 | 19980717 | FR19970000324 | 19970110 |
| FR2758237 B1 | 19990430 | FR19970000324 | 19970110 |

**Probable Assignee:** BOURE JEAN PIERRE

**Assignee(s):**(std)**:** BOURE JEAN PIERRE

**Inventor(s):**(std)**:** BOURE JEAN PIERRE

**International class (IPC 8–9):** A01K55/00 A01K59/00 (Advanced/Invention); A01K55/00 A01K59/00 (Core/Invention)

**International class (IPC 1–7):** A01K59/00

**CPC:** A01K55/00 A01K59/00

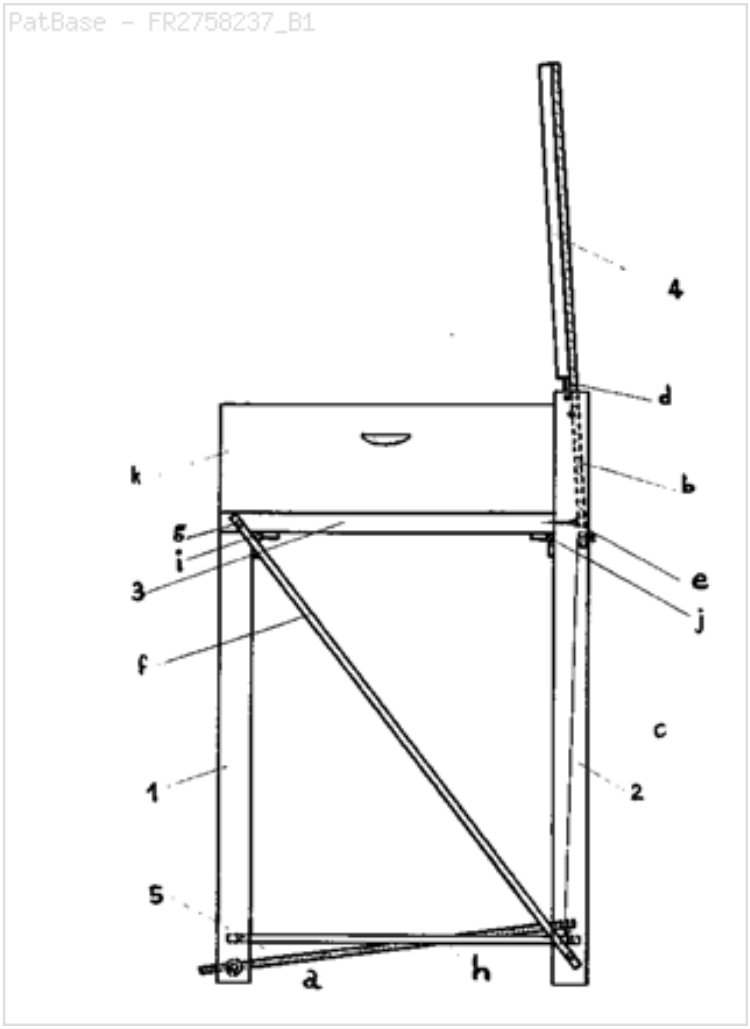
**European class:** A01K55/00 A01K59/00

Classification Explorer

**Cited documents:** DE8902874 U, DE3533209 A1, DE3210386 A1,

**Forward Citations:** US9485968,

**Abstract:**
Source: FR2758237A The device is constructed in three parts, of which the first is the four feet (1, 2), which are linked together and are designed to support a working area (3). The rear feet (2) extend above the working surface by an amount greater than the height of the hives. The working surface is designed to allow the bee keeper to place the container, designed to receive the honey frames. The second part of the device is formed by the honey frames cover (4), which is the same size as the working surface. The cover is designed to be operated as a pivoting plate (4), operated by means of a pedal (5), which is the third part of the assembly, and a pull rod (b). The assembly is designed to fold for ease of transport and is held in a rigid condition by means of four rods, made of flat iron (f and h).



0) US3740767A – KNITTED HEADWEAR WITH WIND BARRIER

**19) Family number: 123402** (US3740767A) © PatBase

**Title:** KNITTED HEADWEAR WITH WIND BARRIER

**Priority:** US19710116080 19710217

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| AT332136 B | 19760910 | AT19710008048 | 19710916 |
| AT804871 A | 19751215 | AT19710008048 | 19710916 |
| BE772688 A1 | 19720117 | BE19710772688 | 19710916 |
| CA935251 A1 | 19731016 | CA19710121326 | 19710825 |
| CH539401 A | 19730731 | CH19710014017 | 19710927 |
| DE2143854 A1 | 19720831 | DE19712143854 | 19710901 |
| DK128632 B | 19740610 | DK19720000462 | 19720203 |
| FI50759 B | 19760331 | FI19720000424 | 19720216 |
| FI50759 C | 19760712 | FI19720000424 | 19720216 |
| FR2125836 A5 | 19720929 | FR19710034904 | 19710928 |
| GB1295389 A | 19721108 | | 19710823 |
| JP55033998 U1 | 19800305 | JP19790116714U | 19790824 |
| NL7113072 A | 19720821 | NL19710013072 | 19710923 |
| NO129182 B | 19740311 | NO19720000396 | 19720211 |
| SE375686 B | 19750428 | SE19710011046 | 19710901 |
| SE375686 C | 19750807 | SE19710011046 | 19710901 |
| US3740767 A | 19730626 | US19710116080 | 19710217 |

**Probable Assignee:** SCHUESSLER RICHARD D

**Assignee(s):**(std)**:** DALE R SCHUESSLER ; DALE SCHUESSLER R R D ; SCHUESSLER R ; SCHUESSLER RICHARD D ; SCHUESSLER RICHARD DALE ; SCHUESSLER RICHARD

**Assignee(s):** SCHUESSLER RICHARD D 564 MEADOW ROAD WINNETKA ILLINOIS E U A ; 4DALE SCHUESSLER R R D ; SCHUESSLER R US ; RICHARD D SCHUESSLER ; RICHARD DALE SCHUESSLER ; DALE SCHUESSLER R D

**Inventor(s):**(std)**:** DALE R SCHUESSLER ; DALE SCHUESSLER R R D ; RICHARD DALE SCHUESSLER ; SCHUESSLER R ; SCHUESSLER RICHARD DALE

**Inventor(s):** 4DALE SCHUESSLER R R D ; SCHUESSLER R US ; DALE SCHUESSLER RICHARD ; RICHARD D SCHUESSLER ; DALE SCHUESSLER R D

**International class (IPC 8–9):** A42B1/04 (Advanced/Invention); A42B1/04 (Core/Invention)

**International class (IPC 1–7):** A41D A42B1/00 A42B1/04 A42B1/06 A42B1/18

**CPC:** A42B1/046

**European class:** A42B1/04D

**US class:** 2/173 2/202 2/206

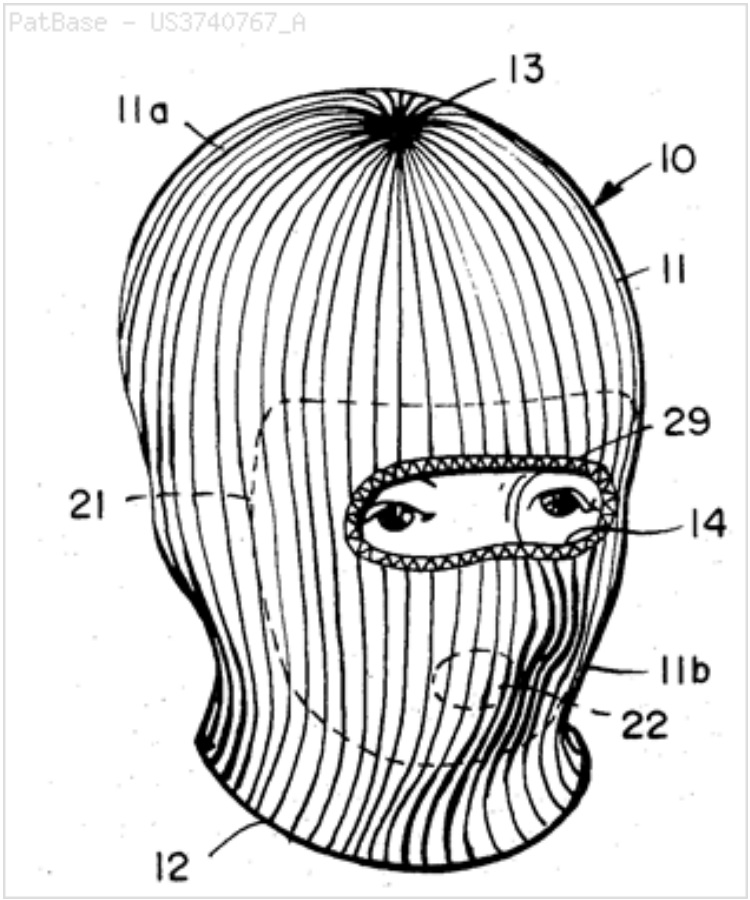
Classification Explorer

**Cited documents:** US3271781 A, US2998611 A, US2682667 A, US2641768 A, US2500982 A, US1482270 A, US1235927 A, US1167379 A, JPH0514049 U, JPH048164 U, JP5014049 U1, JP4008164 U1, JP39000046 Y1,

**Forward Citations:** WO9314655, USD751768, USD750843, USD743110, USD735974, USD733361, USD729457, USD722744, USD722207, USD718003, USD712097, USD604910, USD510652, US9521873, US8225428, US7823222, US7681251, US7290293, US7188374, US7117544, US7114195, US6397395, US6272690, US5845340, US5809572, US5551087, US5214804, US5091996, US5025507, US4961232,

US4941211, US4825473, US4610247, US4285068, US4176409, US2010064417, US2010031422, US2008196146, US2007204384, US2007130673, US2007022515, US2006211970, US2006162048, US2005160514, US2004181851, US2004148683, US2004098789, DE29509261,

**Abstract:**
Source: US3740767A A cap and hood combination wherein the hood portion is composed of inner and outer layers of stretchable, porous, knitted material having aligned eye openings. Between the inner and outer knitted layers is a relatively non−porous and relatively non−stretchable intermediate layer formed of plastic or other suitable material, such intermediate layer having free lateral portions slidable with respect to the knitted layers and being positioned to protect the wearer's face against blasts of cold air which might otherwise pass through the porous knitted layers. The intermediate layer has an eye opening larger than, but aligned with, the eye openings of the knitted inner and outer layers, the lower portion of the intermediate layer's opening being defined by a flap which is foldable downwardly between the knitted layers when the eye openings of the inner and outer layers are expanded to expose the lower portion of a wearer's face. Means are provided for urging the flap into a raised position when the lower portion of the face is again covered by the inner and outer knitted layers.



0) DE8705512U1 –

**20) Family number: 16774134** (DE8705512U1) © PatBase

**Priority:** DE19870005512U 19870414

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| DE8705512 U1 | 19870723 | DE19870005512U | 19870414 |

**Probable Assignee:** HOLFELDER WERKE GMBH AND CO KG 6837 ST LEON ROT DE

**Assignee(s):** HOLFELDER WERKE GMBH AND CO KG 6837 ST LEON ROT DE

**International class (IPC 8–9):** A01K49/00 A01K57/00 (Advanced/Invention); A01K49/00 A01K57/00 (Core/Invention)

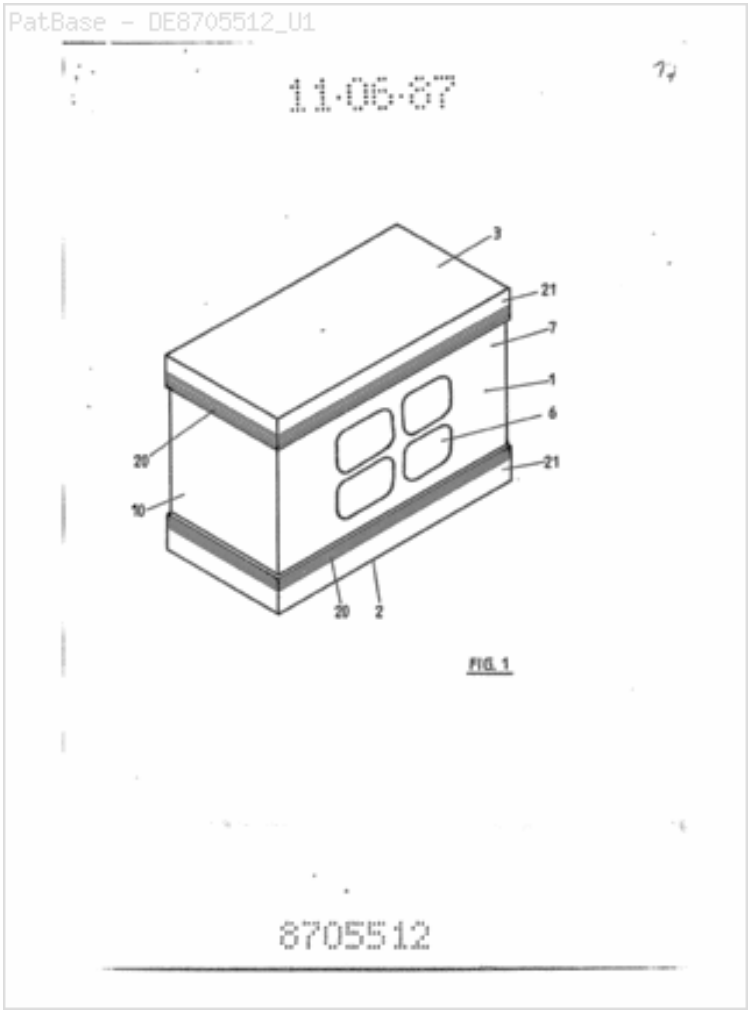
**International class (IPC 1–7):** A01K47/06 A01K49/00

**CPC:** A01K49/00 A01K57/00

**European class:** A01K49/00 A01K57/00

Classification Explorer

**Abstract:**
Source: DE8705512U1 (Claim 1) Ableger– und Transportkasten fuer Bienen Schutzansprueche 1. Ableger– und Transportkasten fuer Bienen, der einen abnehmbaren Deckel und eine mit einem Boden versehene Kastenzarge ausweist, die in mindestens einer Seitenwand ein verschliessbares Lueftungsgitter und in einer Stirnwand ein verschliessbares Flugloch aufweist, dadurch gekennzeichnet, dass der Ableger–und Transportkasten aus Pappe, insbesondere Wellpappe besteht, dass an der Zargeninnenseite ein Ringeinsatz (4) angeordnet ist, dass zwischen jeweils einer der senkrechten Waende des Ringeinsatzes (4), die das Lueftungsgitter (5) aufweist, und der davorliegenden, mit Lueftungsoeffnungen (6) versehenen Seitenwand (7) ein hochziehbarer Lueftungsschieber (8) angeordnet ist, und dass am oberen und unteren Rand der Kastenzarge (1), die mit dem Deckel (3, 3') bzw.




**Machine translation:** (Claim 1) and spin–transport box for bees first Schutzansprueche Offshoot and transport box for bees, which identifies a removable lid and one with a floor provided Kastenzarge, which has at least one side wall, a sealable Lueftungsgitter and in an end wall, a closable entrance hole, characterized in that particular branch and transport box made of cardboard, Corrugated cardboard is to be arranged at the Zargeninnenseite a ring insert (4), that between each of the vertical walls of the ring insert (4) that the Lueftungsgitter (5) exhibits, and the upstream, with ventilation openings (6) bearing side wall (7) Retractable Lueftungsschieber one (8) is arranged, and that at the top and bottom of the Kastenzarge (1), with the cover (3, 3 ') or

0) GB2479887A – BAG WITH FLAP FORMING FIRST AND SECOND TAMPER E...

**21) Family number: 45943045** (GB2479887A) © PatBase

**Title:** BAG WITH FLAP FORMING FIRST AND SECOND TAMPER EVIDENT CLOSURES

**Priority:** GB20100006999 20100427

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| GB201006999 A0 | 20100609 | GB20100006999 | 20100427 |
| GB2479887 A1 | 20111102 | GB20100006999 | 20100427 |
| GB2479887 B2 | 20140514 | GB20100006999 | 20100427 |

**Probable Assignee:** JONES RONALD G

**Assignee(s):**(std)**:** JONES RONALD G ; JONES RONALD GLYN ; REA ALAN W ; REA ALAN WILLIAM

**Assignee(s):** ALAN WILLIAM REA ; RONALD GLYN JONES

**Inventor(s):**(std)**:** JONES RONALD GLYN ; REA ALAN WILLIAM

**Inventor(s):** RONALD GLYN JONES ; ALAN WILLIAM REA

**International class (IPC 8–9):** B65D27/14 B65D27/30 B65D33/16 B65D33/18 (Advanced/Invention)

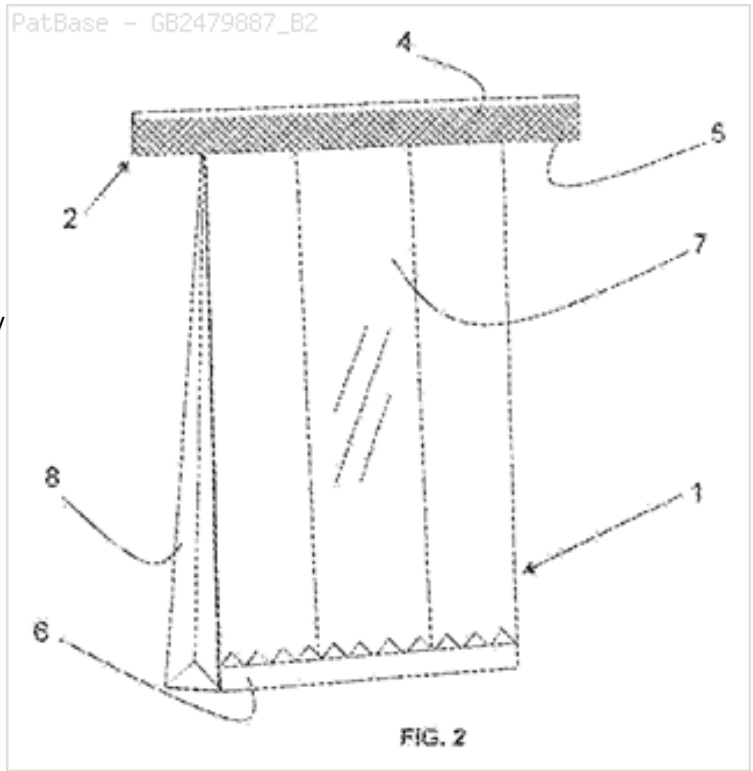
**CPC:** Y02W90/11 B65D27/14 B65D27/30 B65D33/18 B65D33/1691

**European class:** B65D33/16H

Classification Explorer

**Cited documents:** WO9315968, US5150971, US2197490, US2093979, US2007292053, US2004120611, EP1714891, EP0304166,

**Abstract:**
Source: GB2479887A A bag or envelope 1 with tamper evident closure comprising a flap (3, figure 1) adjacent to and foldable over an opening 2 and adhesive 4 e.g. finger lift tape applied to the flap, end portions 5 of the flap extending beyond the bag at either side foldable to form secondary tamper evident closures. The flap may be 2–20mm wider than the bag and may be folded back on itself or on the bag (figure 4), secured with adhesive. The flap may be secured to the bag using PVA, cold starch or hot melt glue. The envelope may be a single folded paper sheet joined by stitches, staples, adhesive or a transparent plastic strip providing a window 7. There may be two open ends or a closed block bottom end 6 for free standing. An additional tamper–evident closure may be provided for re–sealing the bag after initial opening. Identification or barcodes may be printed on the bag. The bags may be used for secure storage of police items.



0) DE3535883A1 – TOBOGGAN WHICH CAN BE FOLDED UP ZUSAMMENKLAPPBA...

**22) Family number: 2290084** (DE3535883A1) © PatBase

**Title:** Toboggan which can be folded up

**Priority:** DD19840269023 19841102

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| BE903558 A2 | 19860217 | BE19850215801 | 19851031 |
| CS259048 B1 | 19880916 | CS19850007861 | 19851104 |
| CS8507861 A1 | 19871112 | CS19850007861 | 19851104 |
| DD228501 A1 | 19851016 | DD19840269023 | 19841102 |
| DD228501 B1 | 19870902 | DD19840269023 | 19841102 |
| DE3535883 A1 | 19860522 | DE19853535883 | 19851008 |
| FR2572702 A1 | 19860509 | FR19850016149 | 19851030 |
| NL8502995 A | 19860602 | NL19850002995 | 19851101 |

**Probable Assignee:** KOMB SPORTGERAETE SCHMALKALDEN

**Assignee(s):**(std)**:** SCHMALKALDEN SPORT VEB ; KOMB SPORTGERAETE SCHMALKALDEN ; WEIHEIT JOACHIM

**Assignee(s):** KOMBINAT SPORTGERATE SCHMALKALDE ; VEB KOMB SPORTGERAETE SCHMALKALDEN DD ; VEB KOMBINAT SPORTGERAETE SCHMALKALDEN ; VEB KOMBINAT SPORTGERAETE SCHMALKALDEN TE SCHMALKALDEN DUITSE DEMOCRATISCHE REPUBLIEK ; VEB KOMBINAT SPORTGERATE SCHMALKALDEN ; WEIHEIT JOACHIM DD

**Inventor(s):**(std)**:** WEIHEIT JOACHIM ; WEISHEIT JOACHIM

**Inventor(s):** WEISHEIT JOACHIM DD ; WEIHEIT JOACHIM DD ; JOACHIM WEISHEIT

**International class** (IPC 8–9)**:** B62B13/16 (Advanced/Invention); B62B13/00 (Core/Invention)

**International class** (IPC 1–7)**:** A63B B62B13/00 B62B13/16

**CPC:** B62B13/16 B62B2205/00

**European class:** B62B13/16 L62B205/00

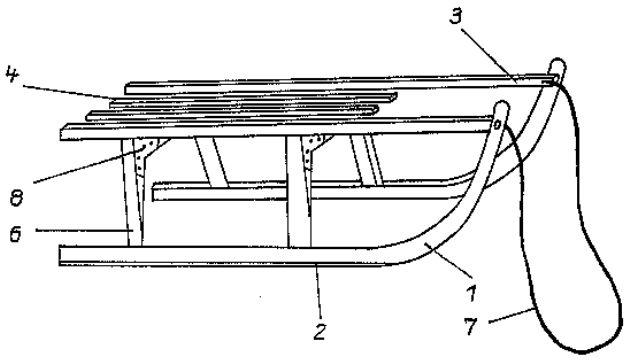
Classification Explorer

**Cited documents:** US1711017 A, GB191210953 A, GB10953, DE702805 A, CH196851 A,

**Abstract:**
Source: DE3535883A1 The invention relates to a toboggan which can be folded up and is intended for the popular pastime of tobogganing. The aim of the invention is to develop a wooden toboggan which can be folded up, requires little expenditure in its production, has a simple construction, a high stability and long life, and makes possible simple erection and dismantling. The object of the invention is to be seen in the development of a wooden toboggan which can be folded up, requires no additional reinforcements between the legs and thus ensures problem−free erecting and dismantling and with few joints guarantees a high mechanical stability at minimum production expense. According to the invention, this object is achieved in that a pivot joint is arranged instead of the mortise joint between crosspiece (5) and leg (6), and crosspiece (5) and leg (6) are bevelled with respect to the seat surface (4) at angles of between 30 and 90 DEG and in the in−use state these bevelled surfaces bear against one another.

PatBase - NL8502995_A

FIG. 1




8 [illegible] 9 9 3
VEB Kombinat Sportgeräte Schmalkalden, SCHMALKALDEN, Duitse Democratische Republiek

0) US3822956A – MACHINE FOR CUTTING OR STRIPPING PAVEMENT

**23) Family number: 30811077** (US3822956A) © PatBase

**Title:** MACHINE FOR CUTTING OR STRIPPING PAVEMENT

**Priority:**

| | | |
|---|---|---|
| AT19730000900 19730201 | AT19740006320 19740801 | DE19722206361 19720210 |
| AT19740006322 19740801 | AT19740006321 19740801 | DE19722218350 19720415 |
| DE19722263611 19721227 | DK19730000752 19730212 | DK19740005409 19741016 |
| DK19740005436 19741017 | DK19740005408 19741016 | NO19730000477 19730207 |

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| AT331293 B | 19760810 | AT19730000900 | 19730201 |
| AT338318 B | 19770825 | AT19740006322 | 19740801 |
| AT339945 B | 19771110 | AT19740006321 | 19740801 |
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| AT632074 A | 19771115 | AT19740006320 | 19740801 |
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| AT632274 A | 19761215 | AT19740006322 | 19740801 |
| AT90073 A | 19751115 | AT19730000900 | 19730201 |
| BE795315 A1 | 19730529 | | 00000000 |
| CA1000541 A1 | 19761130 | CA19730163528 | 19730212 |
| CH574543 A | 19760415 | CH19730001423 | 19730201 |
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| DE2206361 B2 | 19750605 | DE19722206361 | 19720210 |
| DE2206361 C3 | 19760122 | DE19722206361 | 19720210 |
| DE2218350 A1 | 19731025 | DE19722218350 | 19720415 |
| DE2218350 B2 | 19790823 | DE19722218350 | 19720415 |
| DE2218350 C3 | 19831215 | DE19722218350 | 19720415 |
| DE2263611 A1 | 19740704 | DE19722263611 | 19721227 |
| DE2263611 B2 | 19770512 | DE19722263611 | 19721227 |
| DE2263611 C3 | 19771229 | DE19722263611 | 19721227 |
| DK142037 B | 19800811 | DK19740005409 | 19741016 |
| DK142037 C | 19810216 | DK19740005409 | 19741016 |
| DK142038 B | 19800811 | DK19740005436 | 19741017 |
| DK142038 C | 19810216 | DK19740005436 | 19741017 |
| DK142462 B | 19801103 | DK19740005408 | 19741016 |
| DK142462 C | 19810330 | DK19740005408 | 19741016 |
| DK142464 B | 19801103 | DK19730000752 | 19730212 |
| DK142464 C | 19810330 | DK19730000752 | 19730212 |
| DK540874 A | 19750512 | DK19740005408 | 19741016 |
| DK540974 A | 19750512 | DK19740005409 | 19741016 |
| DK543674 A | 19750512 | DK19740005436 | 19741017 |
| ES411474 A1 | 19760101 | ES19730411474 | 19730209 |
| FR2171454 A1 | 19730921 | FR19730005242 | 19730207 |
| FR2171454 B3 | 19760213 | FR19730005242 | 19730207 |
| GB1416999 A | 19751210 | GB19720057861 | 19721214 |
| GB1424393 A | 19760211 | GB19730006173 | 19730208 |
| IT974951 A | 19740710 | IT19720069892 | 19720913 |
| IT977740 A | 19740920 | IT19730067271 | 19730208 |
| JP48088741 A2 | 19731120 | JP19730017014 | 19730210 |
| NL7301797 A | 19730814 | NL19730001797 | 19730208 |

| | | | | |
|---|---|---|---|---|
| NO133330 B | 19760105 | NO19730000477 | 19730207 | |
| NO133330 C | 19760412 | NO19730000477 | 19730207 | |
| NO135534 B | 19770110 | NO19750000521 | 19750217 | |
| NO135534 C | 19770420 | NO19750000521 | 19750217 | |
| NO135536 B | 19770110 | NO19750000520 | 19750217 | |
| NO135536 C | 19770420 | NO19750000520 | 19750217 | |
| NO138097 B | 19780320 | NO19750000522 | 19750217 | |
| NO138097 C | 19780628 | NO19750000522 | 19750217 | |
| NO750520 A | 19730813 | NO19750000520 | 19750217 | |
| NO750521 A | 19730813 | NO19750000521 | 19750217 | |
| NO750522 A | 19730813 | NO19750000522 | 19750217 | |
| SE408925 B | 19790716 | SE19730001892 | 19730209 | |
| SE408925 C | 19791025 | SE19730001892 | 19730209 | |
| US3822956 A | 19740709 | US19730338049 | 19730305 | |

**Probable Assignee:** WIRTGEN REINHARD DT

**Assignee(s):**(std)**:** REINHARD WIRTGEN ; WIRTGEN R ; WIRTGEN REINHARD ; WIRTGEN REINHARD 5461 WINDHAGEN ; WIRTGEN REINHARD DT ; WIRTGEN REINHARD HOHNER STRASSE 5461 WINDHAGEN LIN

**Assignee(s):** WIRTGEN REINHARD HOHNER STRASSE 5461 WINDHAGEN LINZ RHEIN ALLEMAGNE ; WIRTGEN REINHARD HOHNER STRASSE 5461 WINDHAGEN ; WIRTGEN REINHARD HOHNER STRASSE ; WIRTGEN REINHARD 5461 WINDHAGEN DE ; WIRTGEN R DT

**Inventor(s):**(std)**:** SOK ; WIRTGEN R ; WIRTGEN REINHARD

**Inventor(s):** WIRTGEN REINHARD 5461 WINDHAGEN ; WIRTGEN REINHARD 5461 WINDHAGEN DE ; WIRTGEN R DT ; REINHARD WIRTGEN

**International class (IPC 8–9):** E01C23/00 E01C23/06 E01C23/08 E01C23/088 E01C23/09 E01C23/14 (Advanced/Invention); E01C23/08 (Advanced/Non–invention); E01C E01C23/00 (Core/Invention); E01C (Subclass/Invention)

**International class (IPC 1–7):** E01C23/00 E01C23/06 E01C23/08 E01C23/088 E01C23/09 E01C23/12 E01C23/14

**CPC:** E01C23/088 E01C23/14

**European class:** E01C23/088 E01C23/14

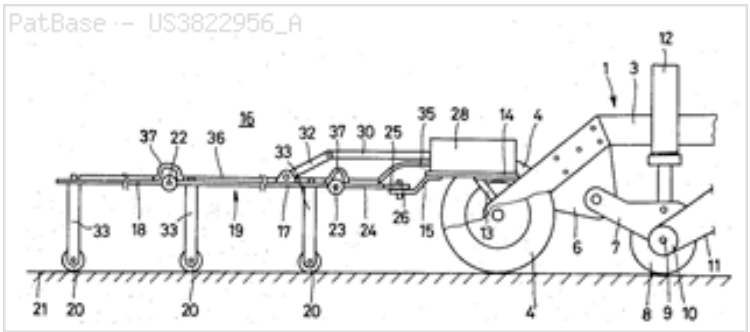
**US class:** 404/95

Classification Explorer

**Cited documents:** US3279458 A, US3233605 A, US3221617 A, US3063442 A, US3055280 A, DE6949974 U,

**Forward Citations:** US8834063, US7578634, US7316521, US4781491, US2009297268, US2007071552, US2006024133, US2005085771, JP60062517, JP60045713, FR2321012, FR2321012, DK152714, DE3733769, DE2542294, CN103233418, CN103233418,

**Abstract:**
Source: US3822956A A machine for removing pavement by cutting or stripping away the pavement on a highway in connection with highway–repair operations. The apparatus includes a vehicle which has a suitable tool driven to cut or strip away the pavement from the surface of the highway. Since in many cases it is necessary to initially heat the pavement to prepare it for removal, the vehicle has operatively connected to its front end a frame which carries sources of radiant heat from which heat is directed down to the pvavment to heat the latter in preparation for removal thereof. This frame is made up of sections connected to each other in such a way that the frame can be collapsed to a location carried by the front end of the vehicle so that the latter can travel without being hampered



by riding of the frame and heating structure on the highway. The sections can be expanded from their inoperative position carried by the vehicle to an operative position extending forwardly from the vehicle so as to render the heating structure operative. The heating structure provides the radiant heat energy from a combustible gas which if it is derived from a tank carried by the vehicle in which the gas is in liquified form is first converted into dry gaseous form by a suitable vaporizer situated between the tank of liquified gas and the heating structure. Claims, 6 Drawing Figures

0) AU206963088A – FOLDABLE SINGLE–USE FRAME FOR A BEE HIVE

**24) Family number: 34741017** (AU206963088A)

© PatBase

**Title:** FOLDABLE SINGLE–USE FRAME FOR A BEE HIVE

**Priority:** AU19690063088 19691030

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| AU206963088 A1 | 19710506 | AU19690063088 | 19691030 |
| AU6308869 A1 | 19710506 | AU19690063088 | 19691030 |

**Probable Assignee:** FRANS GOSTA JOHANSON

**Assignee(s):** FRANS GOSTA JOHANSON

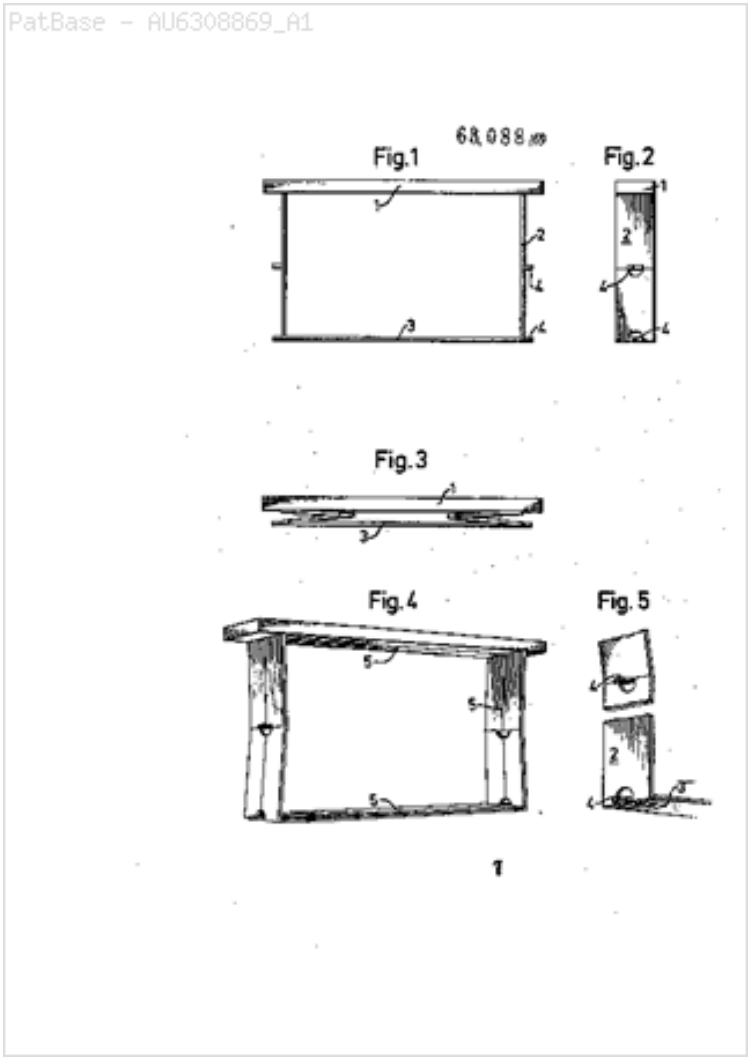
**Inventor(s):** FRANS GLISTA JOHANSON

**International class (IPC 8–9):** A01K47/02 (Advanced/Invention); A01K47/00 (Core/Invention)

**CPC:** A01K47/02

**European class:** A01K47/02

Classification Explorer



0) KR200472753Y – FOLDABLE BOX FOR CONTAINING BEEHIVE

**25) Family number: 56490055** (KR200472753Y)

© PatBase

**Title:** FOLDABLE BOX FOR CONTAINING BEEHIVE

**Priority:** KR20130009687U 20131126

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| KR200472753 Y1 | 20140522 | KR20130009687U | 20131126 |

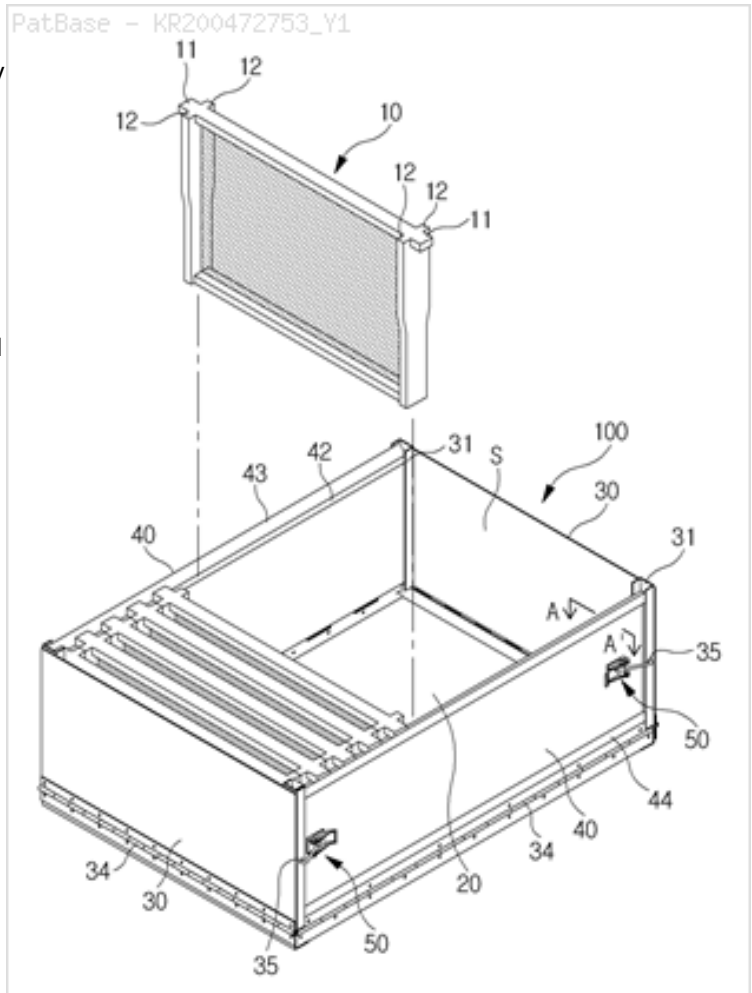
**International class (IPC 8–9):** A01K49/00 A01K59/00 (Advanced/Invention)

**CPC:** A01K59/00 A01K47/06 A01K49/00

Classification Explorer

**Cited documents:** KR20120007813 U, KR200458897 Y1, KR200458897, KR200379934 Y1, KR200379934, KR100376798 B1, KR100376798,

**Abstract:**
Source: KR200472753Y The present invention is installed in the hive for the honey harvest is housed in a small criticism relates to a small storage box criticism, the present invention relates to a folding storage box small criticism, the bottom plate and the side plates forming the inner space of the honey collected as a box for storing small criticism, the pair of opposing side panels can be flat and consist of direct, one on the edge of the bottom plate to the bottom plate rotatably hinged vertically on the folded or unfolded is possible, and for the formation of the internal space when unfolded flat and can be combined with direct sales of mutual support, and to receive a small number of direct criticism of the seat and the other end has a small edge is seated in a small criticism of criticism seating surface is provided the.



0) US1742137A – COLLAPSIBLE GOCART

**26) Family number: 19558345** (US1742137A) © PatBase

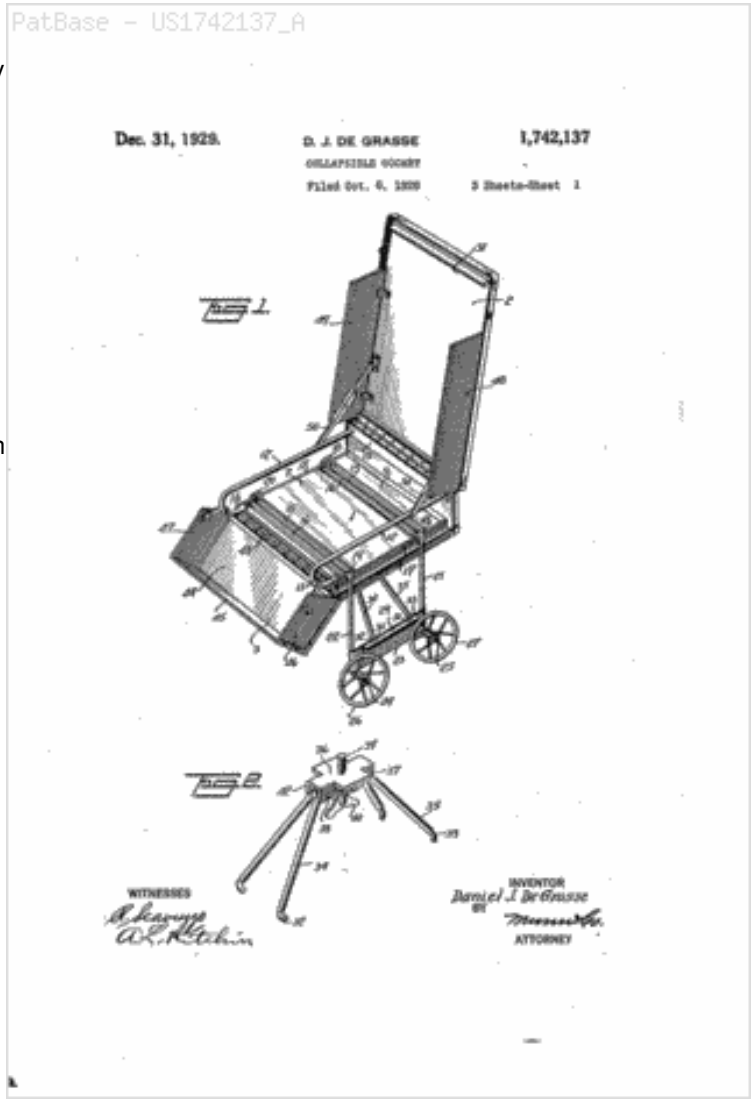
| | |
|---|---|
| **Title:** | COLLAPSIBLE GOCART |
| **Priority:** | US19280310761 19281006 |

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| US1742137 A | 19291231 | US19280310761 | 19281006 |

| | |
|---|---|
| **Probable Assignee:** | DE GRASSE DANIEL J |
| **Assignee(s):**(std)**:** | DE GRASSE DANIEL J |
| **Inventor(s):**(std)**:** | DE GRASSE DANIEL J |
| **Inventor(s):** | GRASSE DANIEL J DE |
| **International class** (IPC 8–9)**:** | B62B7/10 (Advanced/Invention); B62B7/00 (Core/Invention) |
| **International class** (IPC 1–7)**:** | B62B7/10 |
| **CPC:** | B62B7/10 B62B2205/04 B62B2205/12 |
| **European class:** | B62B7/10 L62B205/04 L62B205/12 |
| **US class:** | 280/37 |
| Classification Explorer | |
| **Forward Citations:** | US7159878, US4171139, US3738677, US2927679, US2903270, US2502089, |

**Abstract:**
Source: US1742137A 1. VVhat I claim is:– l. A collapsible go–cart, comprising a foldable body when folded presenting a rectangular enclosure, said body when unfolded forming the bottom of a cart, a back to the cart and a foot–piece to the cart, hinge meinbers for connecting said parts together, a plurality of pairs of wheels, a frame for each pair of wheels, each of said frames having apair of rods formed with apertured hooksbaped ends, a bar extending through the aperture in eaclrof said ends, said bars being connected to the top surface of said bottom and extending transversely thereof for slidably and swingably connecting said frames with said bottom, said aperturcd ends being so formed that the frames and wheels may be swung to a position substantially parallel with the bottom and then slid to a position over the bottom when the parts are folded and slid and swung to a position so that the frames will extend at right angles to the bottom when unfolded, and means for locking the frames in an unfolded position.



0) US2007157864A – DYNAMICS STABILISER FOR A BOAT, A FORCE STABILI...

**27) Family number: 31960557** (US2007157864A) © PatBase

**Title:** DYNAMICS STABILISER FOR A BOAT, A FORCE STABILISING DEVICE FOR ORIENTING SAILS AND SEMI–SUMERSIBLE BOAT

**Priority:** FR20030013714 20031124 WO2004FR02933 20041118

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| EP1716040 A2 | 20061102 | EP20040805470 | 20041118 |
| FR2862602 A1 | 20050527 | FR20030013714 | 20031124 |
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| US2007157864 AA | 20070712 | US20040580215 | 20041118 |
| WO05054049 A2 | 20050616 | WO2004FR02933 | 20041118 |
| WO05054049 A3 | 20051124 | WO2004FR02933 | 20041118 |

**Probable Assignee:** ALINE MARIE ANDREE ALDIN

**Assignee(s):**(std)**:** ALDIN ALINE ; ALDIN ALINE MARIE ANDREE ; ALDIN FREDERIC ; ALDIN GERARD ; ALDIN GERARD ROGER ; ARCHAMBAUD CHRISTEL

**Assignee(s):** GERARD ROGER ALDIN ; ALINE MARIE ANDREE ALDIN

**Inventor(s):**(std)**:** ALDIN ALINE ; ALDIN ALINE MARIE ANDREE ; ALDIN FREDERIC ; ALDIN FREDERIC JEAN CLAUDE ; ALDIN GERARD ; ALDIN GERARD ROGER ; ARCHAMBAUD CHRISTEL ; ARCHAMBAUD CHRISTEL GENEVIEVE

**Inventor(s):** ARCHAMBAUD CHRISTEL GENEVIEVE ALDIN ; CHRISTEL GENEVIEVE ARCHAMBAUD ALDIN ; FREDERIC JEAN CLAUDE ALDIN ; GERARD ROGER ALDIN ; ALINE MARIE ANDREE ALDIN

**Agent(s):** CABINET CELANIE; OLIFF AND BERRIDGE PLC

**Designated states:** AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

**International class (IPC 8–9):** B63B1/04 B63B1/10 B63B1/28 B63B1/30 B63B1/32 B63B39/06 B63H9/10 (Advanced/Invention); B63B39/03 B63B43/04 B63B43/14 (Advanced/Non–invention); B63B1/00 B63B1/16 B63B39/00 B63H9/00 (Core/Invention); B63B43/00 (Core/Non–invention)

**International class (IPC 1–7):** B63B1/10 B63B1/28 B63B1/30 B63B39/06 B63H9/10

**CPC:** B63H9/10 B63B1/107 B63B1/283 B63B1/286 B63B1/32 B63B39/02 B63B39/03 B63B39/062 B63B43/04 B63B43/14 Y02T70/12

**European class:** B63B1/10C B63B1/28B B63B1/28C2 B63B1/32 B63B39/06C B63H9/10 L63B39/02 L63B39/03 L63B43/04 L63B43/14 Y02T70/12

**US class:** 114/281

Classification Explorer

**Cited documents:** US6718898 BA, US6578507 BA, US5511504 A, US5309859 A, US4993348 A, US4611551 A, US4452166 A, US3999496 A, US3802366 A, US3417722 A, US1661115 A, NL34042 C, FR2817531 A1, FR2787758 A1, DE590270 A,

**Forward Citations:** WO16048250, WO11005226, WO11005226, WO09150615, WO09150615, WO09067116, WO09023072, WO06129011, WO06129011, US8443663, US8379487, US7989973, US7350745, US2016288885, US2016096610, US2010188930, US2010121506, US2008148723, US2007023569, FR3043644, EP3168126, EP2952426, CN105775063,

**Abstract:**
Source: US2007157864A The invention relates to a boat comprising a platform (52), at least one main, completely submerged, streamlined float (51), integral with the platform (52) by one or more supporting pylons (16) which take up the full weight of the platform (52) to keep it out of the water, arms (14) radiating out from the platform (52), which are substantially horizontal and which support submersible struts (5) extending into the water, fitted with submerged orientable ailerons (1, 2) with hydrodynamic lift effect, said arms (14) being located above the water, mobile streamlined fairings (6), freely rotating under the effect of the local current and individually enveloping each supporting pylon (16) and each submersible strut (5), at least three auxiliary closed–hull floats (53), watertight and streamlined, spaced around the platform (52) to ensure balanced trim when immobile or at low speed, integral with the radiating arms (14) or with the platform (52).

PatBase - WO05054049_A2



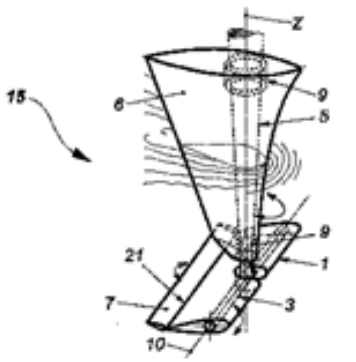



FIG. 1

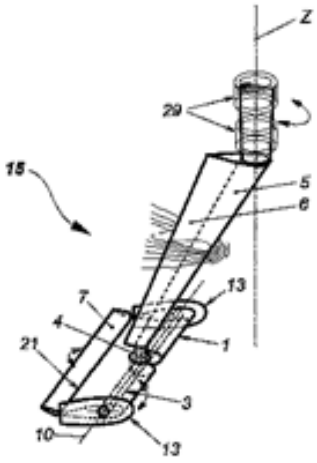



FIG. 2

**28) Family number: 6124827** (EP0178206A1) © PatBase

**Title:** Conception of a twin engine ULM.

**Priority:** FR19840014913 19840928 FR19850000077 19850104

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| DE3568970 D1 | 19890427 | DE19853568970 | 19850916 |
| EP0178206 A1 | 19860416 | EP19850401781 | 19850916 |
| EP0178206 B1 | 19890322 | EP19850401781 | 19850916 |
| FR2571020 A1 | 19860404 | FR19840014913 | 19840928 |
| FR2571020 B1 | 19861107 | FR19840014913 | 19840928 |
| FR2575722 A2 | 19860711 | FR19850000077 | 19850104 |
| FR2575722 B2 | 19890303 | FR19850000077 | 19850104 |

**Probable Assignee:** AUBERTIN HENRI

**Assignee(s):**(std)**:** AUBERTIN HENRI

**Inventor(s):**(std)**:** AUBERTIN HENRI

**Designated states:** BE DE GB IT

**International class** (IPC 8–9)**:** B64C31/028 (Advanced/Invention); B64C31/00 (Core/Invention)

**International class** (IPC 1–7)**:** B64C39/00 B64C39/02 B64C9/14 B64C9/38

**CPC:** B64C31/028

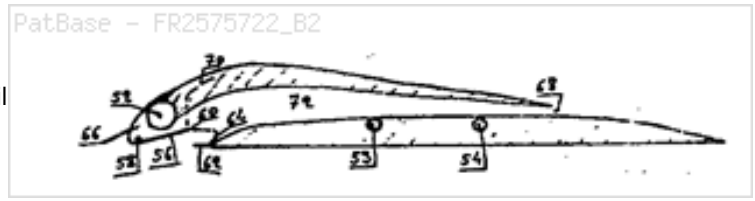
**European class:** B64C31/028

Classification Explorer

**Cited documents:** US4424946 A, US4415131 A, US3441236 A, US3439890 A, GB487049 A, FR978969 A,

**Forward Citations:** DE4140139, CN103983403, CN103983403, CN103123293,

**Abstract:**
1. An ultralight aircraft of the three–axis airplane type, twin–engined, with separate flight control surfaces, and a rear stabilizing tail structure, which is comprised by: a) wings which are foldable without being dismounted, their joints being placed at the point of attachment to the wing root on the upper part of the fuselage, the folded wings being battened completely against the vertical sides of the fuselage; b) a rear stabilizing tail structure of annular type, having reduced lateral dimensions, being composed of two horizontal elevators (20, 22) aranged horizontally, parallel to each other, lodged between two vertical and parallel rudders (24, 26); c) a system of hyper–sustentation, on the main (bearing) plane only, the outlet of circulating air by internal ventilation of the wing surface being placed behind the median part of the extrados (upper side of the wing surface).



0) FR1389421A – COMBUSTIBLE, DE PREFERENCE SOLIDE, A GRANDE PUI...

**29) Family number: 21123343** (FR1389421A) © PatBase

**Title:** COMBUSTIBLE, DE PREFERENCE SOLIDE, A GRANDE PUISSANCE CALORIFIQUE FUEL SOLID PREFERABLY A HIGH POWER HEAT (Machine translation)

**Priority:** FR19630937704 19630611

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| FR1389421 A | 19650219 | FR19630937704 | 19630611 |

**Inventor(s):**(std)**:** BOULLENGER JACQUELINE YVETTE

**International class** (IPC 8–9)**:** C10L5/40 (Advanced/Invention); C10L5/40 (Core/Invention)

**International class** (IPC 1–7)**:** C10L5/00

**CPC:** C10L5/40 Y02E50/30

**European class:** C10L5/40 Y02E50/30

Classification Explorer

**Forward Citations:** EP0249437,

**Abstract:**
Source: FR1389421A (Claim 1) 1. Il consiste en polymeres obtenus par ouverture de la double liaison du groupe carbonyle de produits chimiques simples;

**Machine translation:** (Claim 1) 1. It consists of polymers obtained by opening the double bond of the carbonyl group of simple chemicals;

0) US3713526A – PACKAGING APPARATUS

**30) Family number: 93503** (US3713526A) © PatBase

**Title:** PACKAGING APPARATUS

**Priority:** US19680734029 19680603 US19710111580 19710201

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| AU206955671 A1 | 19701203 | AU19690055671 | 19690528 |
| BE733965 A | 19691202 | | 19690602 |
| CH496575 A | 19700930 | CH19690008416 | 19690603 |
| DE1928032 A1 | 19700115 | DE19691928032 | 19690602 |
| ES367986 A1 | 19710716 | ES19690367986 | 19690603 |
| FR2010042 A1 | 19700213 | FR19690018015 | 19690602 |
| GB1274934 A | 19720517 | GB19690027172 | 19690529 |
| IL32333 A0 | 19690827 | IL19690032333 | 19690602 |
| LU58791 A | 19700604 | | 19690603 |
| NL6908432 A | 19691205 | NL19690008432 | 19690603 |
| US3579956 A | 19710525 | US19680734029 | 19680603 |
| US3713526 A | 19730130 | US19710111580 | 19710201 |

**Probable Assignee:** TABERT INC

**Assignee(s):**(std)**:** INT PAPER CANADA

**Assignee(s):** CIP INC WAS KNOWN CIP FOREST PRODUCTS INC A COR AS ; TABERT INC ; CIP INC WAS KNOWN CIP FOREST PRODUCTS INC A INC UNDER LAWS OF CANADA 1155 METCALFE STREET MONTREAL QUEBEC CANADA H3B 2X1 AS CORP ; CANADIAN INT PAPER ; CANADIAN INT PAPER CO ; CANADIAN INT PAPER CO CA ; CANADIAN INT PAPER COMPAN ; CIP INC ; CIP INC was KNOWN AS CIP FOREST PRODUCTS INC A COR ; CIP INC WAS KNOWN AS CIP FOREST PRODUCTS INC A CORPORATION INCORPORATED UNDER LAWS OF CANADA 1155 METCALFE STREET MONTREAL QUEBEC CANADA H3B 2X1..

**Inventor(s):**(std)**:** HOFFMANN WOLFGANG ; PAUL WICK ; WICK P ; HOFFMANN W ; WICK PAUL ; WILLIAM HOFFMANN WOLFGANG ; WOLFGANG WILLIAM HOFFMANN

**Inventor(s):** WOLFGANG WILLIAM HOFFMANN AND PAUL WICK ; WOLFGANG HOFFMANN ; HOFFMANN W CA ; WICK P CA

**International class** (IPC 8–9)**:** B65B11/00 B65B11/10 B65B35/30 B65B35/44 B65B43/14 B65B49/00 B65B49/04 B65B49/08 B65B5/06 B65B5/08 B65B51/02 B65B57/14 B65B65/02 B65B7/20 (Advanced/Invention); B65B35/44 B65B5/00 B65B5/06 (Core/Invention)

**International class** (IPC 1–7)**:** B65B1/00 B65B35/30 B65B35/44 B65B35/50 B65B5/00 B65B5/06 B65B5/08 B65G47/26

**CPC:** B65B5/06 Y10S414/103 B65B35/44 B65B5/08

**European class:** B65B35/44 B65B5/06 B65B5/08

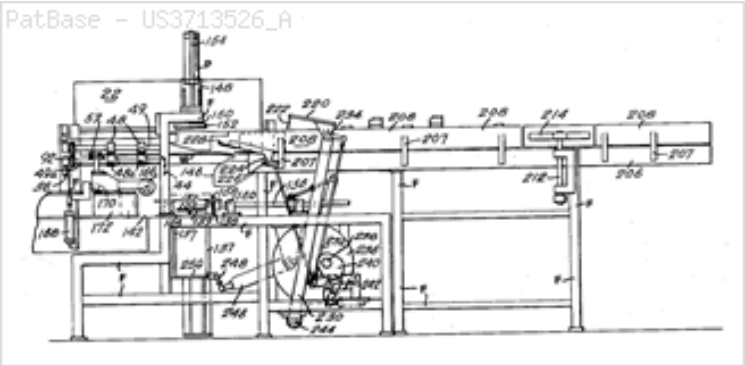
**US class:** 198/3.4 198/34 198/431 414/792.7 414/924 53/207 53/540 53/543

Classification Explorer

**Cited documents:** US3482372 A, US2819576 A,

**Forward Citations:** US7222716, US7073656, US6843360, US6837360, US6793064, US5727365, US5692361, US5501065, US5456058, US5379574, US4294061, US3986319, US3832822, US2007227857, US2006086591, US2005121289, US2004154902, US2003234156, JP51080480, JP50126661, JP49112787, EP0305896, DE4205923,

**Abstract:**
Source: US3713526A A commodity feeding apparatus for aligning and selectively feeding a commodity into a packaging station, the feeding apparatus having two advancing systems, one advancing faster than the other and moving selected of the commodities at a faster rate to separate the selected commodities from the remainder thereof and advance same into the packaging station.



0) GB2239819A – 0IL SLICK SKIMMER

**31) Family number: 6689954** (GB2239819A) © PatBase

**Title:** 0il slick skimmer

**Priority:** GB19890026152 19891120 GB19900013739 19900620 GB19900024646 19901113

**Family:**

| Publication number | Publication date | Application number | Application date |
|---|---|---|---|
| GB2239819 A1 | 19910717 | GB19900024646 | 19901113 |
| GB8926152 A0 | 19900110 | GB19890026152 | 19891120 |
| GB9013739 A0 | 19900808 | GB19900013739 | 19900620 |
| GB9024646 A0 | 19910102 | GB19900024646 | 19901113 |

**Probable Assignee:** FEILDEN GEOFFREY B R

**Assignee(s):**(std)**:** FEILDEN G B R ; FEILDEN GEOFFREY B R ; PEARSON R D ; PEARSON RONALD D

**Assignee(s):** R D PEARSON ; G B R FEILDEN

**Inventor(s):**(std)**:** PEARSON R D ; FEILDEN G B R

**Inventor(s):** G B R FEILDEN ; R D PEARSON

**International class**(IPC 8–9)**:** E02B15/04 E02B15/10 (Advanced/Invention)

**International class**(IPC 1–7)**:** E02B15/10

**CPC:** E02B15/046 E02B15/047

**European class:** E02B15/04L E02B15/04L2

Classification Explorer

**Cited documents:** US4305830 A, US3862904 A, US3796656 A, US3653510 A, GB1425365 A, EP0015011 A1,

**Forward Citations:** WO9957378, WO14130259, US9249550, US8911619,

**Abstract:**
Source: GB2239819A A self−propelled, remote−controlled boat carries means for skimming oil from the surface and feeding it into a dracone. The whole assembly is small enough to be dropped from an aircraft. The dracone may have lower outlets so that it can discharge water separating therein, or the boat may include a settling tank 4, from which water is recycled to nozzles 35 ahead of the boat and oil pumped to the dracone. In Fig. 2 the boat is a catamaran, and arcuate slots 12, 16 in the underside of float 3 pick up the floating oil. Other constructions use a single−hulled boat with various booms and pick−up devices, which can be flexible and/or inflatable.

