

## Search history

| Search step | Result(s) | Query                                                                                           |
|-------------|-----------|-------------------------------------------------------------------------------------------------|
| 5           | 24        | (CYLINDER AND PRESS+ AND ROLLER AND ROTATING UNIT AND HOT AND STAMP+ AND LAMINATION)/TI/AB/TX   |
| 4           | 0         | (CYLINDER AND PRESS+ AND ROLLER AND ROTATING UNIT AND HOT STAMPING AND LAMINATION)/TI/AB/TX     |
| 3           | 0         | (CYLINDER AND PRESS+ AND ROLLER AND ROTATING UNIT AND HOT STAMP+ AND LAMINATION)/TI/AB/TX       |
| 2           | 5         | (STAMP+ AND CYLINDER AND PRESS+ AND HOT AND ROLLER AND ROTATING UNIT AND HOT STAMPING)/TI/AB/TX |
| 1           | 20166     | (STAMP+ AND CYLINDER AND PRESS+ AND HOT AND ROLLER)/TI/AB/TX                                    |

## 24 Documents

| Publication numbers               | Title                                                                                                                                                                        | Current assignees                        |
|-----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|
| <a href="#">EP-356221 A2</a>      | High <b>lamination</b> speed automatic laminator                                                                                                                             | ROHM & HAAS CHEMICALS                    |
| <a href="#">EP2067602 A1</a>      | Intermittent film forming system and intermittent film forming method                                                                                                        | TORAY INDUSTRIES                         |
| <a href="#">EP3126132 A1</a>      | Embossing-laminating device                                                                                                                                                  | PERINI FABIO                             |
| <a href="#">EP1458564 A1</a>      | Glass <b>lamination</b> process and apparatus                                                                                                                                | SOLUTIA                                  |
| <a href="#">EP2324999 A1</a>      | Process and equipment for manufacture of advanced composite structures                                                                                                       | DIEFFENBACHER                            |
| <a href="#">EP3280575 A2</a>      | Panel                                                                                                                                                                        | MAYFAIR<br>VERMOEGENSVERWALTUNGS         |
| <a href="#">DE102015209759 A1</a> | Spreading head, method and panel                                                                                                                                             | MAYFAIR<br>VERMÖGENSVERWALTUNG           |
| <a href="#">US20080118681 A1</a>  | Printed wiring board manufacturing apparatus, printed wiring board, method for manufacturing printed wiring board, and electronic device                                     | SHARP                                    |
| <a href="#">US20140319934 A1</a>  | Shaft rotary type linear motor and shaft rotary type linear motor unit                                                                                                       | SANYO ELECTRIC                           |
| <a href="#">EP1995334 A2</a>      | Method for processing metal body and apparatus for processing metal body                                                                                                     | RINASCIMETALLI                           |
| <a href="#">EP2244874 A1</a>      | Film material exhibiting textile properties and method and apparatus for its manufacture                                                                                     | SUPREME INDUSTRIES                       |
| <a href="#">EP1224195 A1</a>      | C-aryl glucoside sglT2 inhibitors                                                                                                                                            | ASTRAZENECA                              |
| <a href="#">FR2335206 A1</a>      | NEW DOSAGE FORM                                                                                                                                                              | HOFFMANN LA ROCHE                        |
| <a href="#">EP1570924 A1</a>      | Method of working metal                                                                                                                                                      | RINASCIMETALLI                           |
| <a href="#">EP1317316 A2</a>      | Bag house elements                                                                                                                                                           | DONALDSON                                |
| <a href="#">EP2403655 A1</a>      | Mixed solvent process for preparing structured organic films                                                                                                                 | XEROX                                    |
| <a href="#">EP1623750 A1</a>      | Honeycomb structure and exhaust emission control device                                                                                                                      | IBIDEN                                   |
| <a href="#">EP2034066 A1</a>      | Nonwoven fabric                                                                                                                                                              | UNICHARM                                 |
| <a href="#">EP2741625 A1</a>      | Smoking article and method of manufacturing a smoking article                                                                                                                | BRITISH AMERICAN TOBACCO                 |
| <a href="#">EP1624435 A1</a>      | El display and its driving method                                                                                                                                            | TOSHIBA MATSUSHITA<br>DISPLAY TECHNOLOGY |
| <a href="#">EP2943290 A1</a>      | Optical effect layers showing a viewing angle dependent optical effect, processes and devices for their production, items carrying an optical effect layer, and uses thereof | SICPA                                    |
| <a href="#">EP1446860 A1</a>      | Flywheel energy storage systems                                                                                                                                              | KINETECH POWER                           |

| Publication numbers          | Title                                                                                                               | Current assignees           |
|------------------------------|---------------------------------------------------------------------------------------------------------------------|-----------------------------|
| <a href="#">US6992718 B1</a> | Illuminating apparatus, display panel, view finder, video display apparatus, and video camera mounting the elements | PANASONIC                   |
| <a href="#">EP1108460 A1</a> | Process for eliminating particulates in exhaust gas                                                                 | mitsubishi heavy industries |

Family 1/24 - FAMPAT - ©Questel

**Title**

(EP-356221)

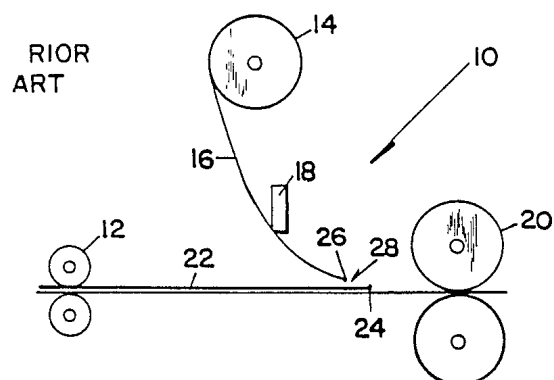
High **lamination** speed automatic laminator**Images**

Fig. 1

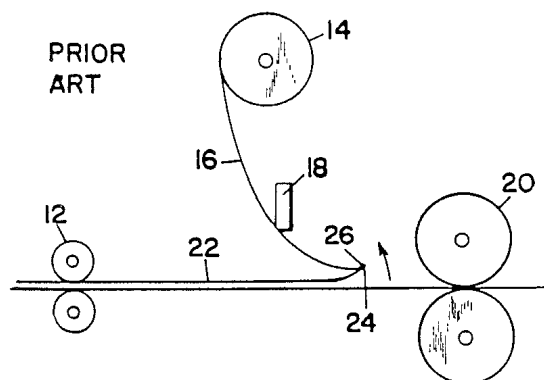


Fig. 2

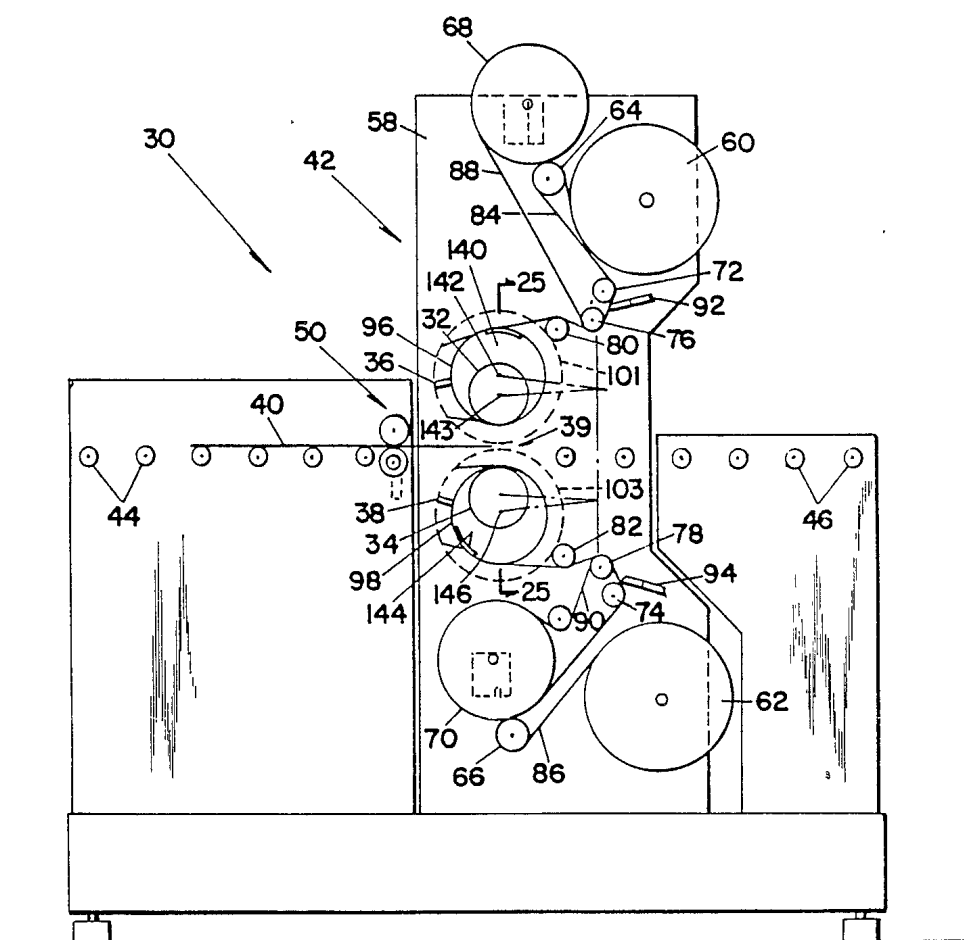


Fig. 3

**Publication numbers with kind code & date**

JP2531272 Y2 1997-04-02 JP2531272Y

DE68925396 T2 1996-05-15 DE68925396

DE68925396 D1 1996-02-22 DE68925396



|             |    |            |               |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|-------------|----|------------|---------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| AT132801    | T  | 1996-01-15 | ATE132801     |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
| EP0356221   | B1 | 1996-01-10 | EP-356221     |  |  |  |  |
| JP7043646   | U  | 1995-09-05 | JP07043646U   |  |  |  |  |
| KR940000625 | B1 | 1994-01-26 | KR940000625   |  |  |  |  |
| CA1320550   | C  | 1993-07-20 | CA1320550     |  |  |  |  |
| CA1299476   | C  | 1992-04-28 | CA1299476     |  |  |  |  |
| EP0356221   | A3 | 1991-11-06 | EP-356221     |  |  |  |  |
| US5026172   | A  | 1991-06-25 | US5026172     |  |  |  |  |
| US5010999   | A  | 1991-04-30 | US5010999     |  |  |  |  |
| IT1224722   | B  | 1990-10-18 | IT1224722     |  |  |                                                                                     |  |
| US4961808   | A  | 1990-10-09 | US4961808     |  |  |  |  |
| JP02196657  | A  | 1990-08-03 | JP02196657    |  |  |  |  |
| KR900003404 | A  | 1990-03-26 | KR19900003404 |  |  |  |  |
| AU3821589   | A  | 1990-03-01 | AU8938215     |  |  |  |  |
| EP0356221   | A2 | 1990-02-28 | EP-356221     |  |  |  |  |
| DK421289    | A  | 1990-02-27 | DK8904212     |  |  |  |  |
| NO893030    | L  | 1990-02-27 | NO-893030     |  |  |  |  |
| DK421289    | D0 | 1989-08-25 | DK8904212     |  |  |                                                                                     |  |
| NO893030    | D0 | 1989-07-25 | NO8903030     |  |  |                                                                                     |  |
| IT8848305   | D0 | 1988-08-26 | IT8848305     |  |  |                                                                                     |  |

**Abstract**

(EP0356221)

An automatic laminator (30) for laminating film on a board (40) includes a control unit, input and output roller tables (44,46) and a control cabinet. The control unit includes a tacking system (39), film supply rolls, takeup rolls, lamination rolls (32,34), a cutting system (36,38) and a vacuum system and holds the board stationary between the completion of the tacking operation and the beginning of the lamination operation and starts the lamination at substantially the same position where the tacking has been effected, thus improving the efficiency of operation and enabling a reduction in the time, pressure, and temperature required for the successful performance of tacking.

**Inventors**

CANDORE AMEDEO

**Latest standardized assignees - inventors removed**

ROHM &amp; HAAS CHEMICALS

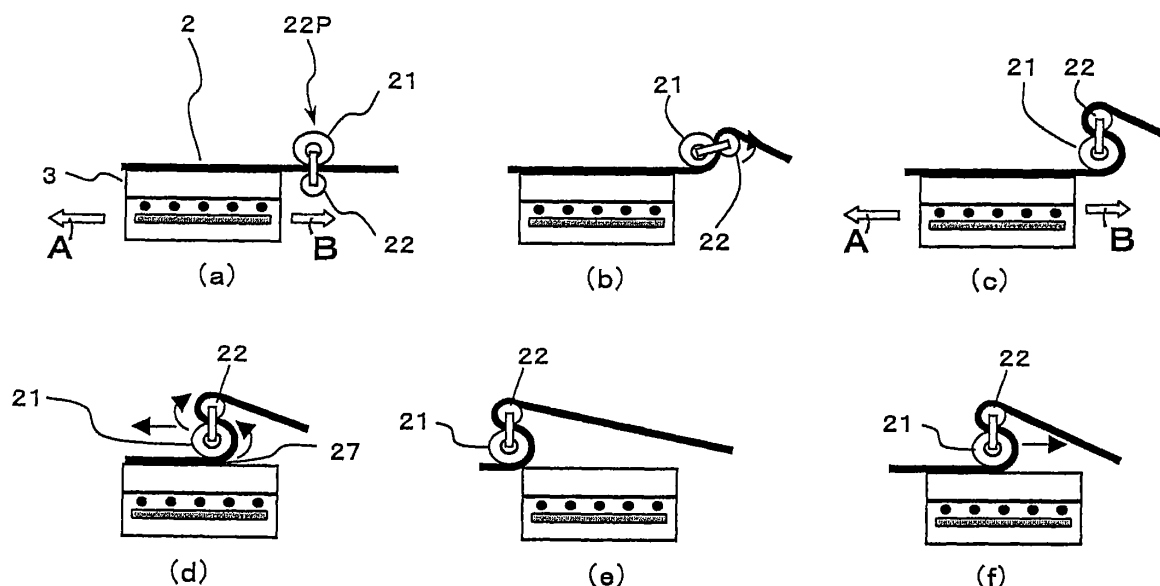
Family 2/24 - FAMPAT - ©Questel

**Title**

(EP2067602)

Intermittent film forming system and intermittent film forming method

**Images**



### Publication numbers with kind code & date

|                               |    |            |               |
|-------------------------------|----|------------|---------------|
| <a href="#">EP2067602</a>     | B1 | 2018-08-22 | EP2067602     |
| <a href="#">EP2067602</a>     | A4 | 2017-08-02 | EP2067602     |
| <a href="#">KR101400811</a>   | B1 | 2014-05-29 | KR101400811   |
| <a href="#">US8647097</a>     | B2 | 2014-02-11 | US8647097     |
| <a href="#">TWI379760</a>     | B  | 2012-12-21 | TWI379760     |
| <a href="#">US20120273998</a> | A1 | 2012-11-01 | US20120273998 |
| <a href="#">US8231372</a>     | B2 | 2012-07-31 | US8231372     |
| <a href="#">CN101528442</a>   | B  | 2012-07-04 | CN101528442B  |
| <a href="#">US20090315212</a> | A1 | 2009-12-24 | US20090315212 |
| <a href="#">CN101528442</a>   | A  | 2009-09-09 | CN101528442   |
| <a href="#">KR20090073101</a> | A  | 2009-07-02 | KR20090073101 |
| <a href="#">EP2067602</a>     | A1 | 2009-06-10 | EP2067602     |
| <a href="#">TW200831274</a>   | A  | 2008-08-01 | TW200831274   |
| <a href="#">WO2008/047540</a> | A1 | 2008-04-24 | WO200847540   |



### Abstract

(EP2067602)

An intermittent film forming system comprising at least a mold (3) having a fine projections and depressions shape formed on the surface, a **press** (10) for **pressing** a film to the surface of the mold, a transportation (50, 60) for carrying the film, and a releasing device (20) for releasing the film from the surface of the mold, wherein the releasing device is provided at least with a stripper roll (21) for stripping the film, a means (23) for rotary driving the stripper roll, an auxiliary roll (22) arranged substantially in parallel with the stripper roll across a film path line, a means (24) for moving the auxiliary roll on the periphery of the stripper roll such that the film embraces the stripper roll, and a guide (25) for moving the stripper roll and the auxiliary roll in the vicinity of the surface of the mold in parallel therewith, while maintaining the relative positional relationship that the film embraces the stripper roll.

### Inventors

MINOURA KIYOSHI  
CHIGIRA NOBUTSUGU  
NOMURA FUMIYASU

### Latest standardized assignees - inventors removed

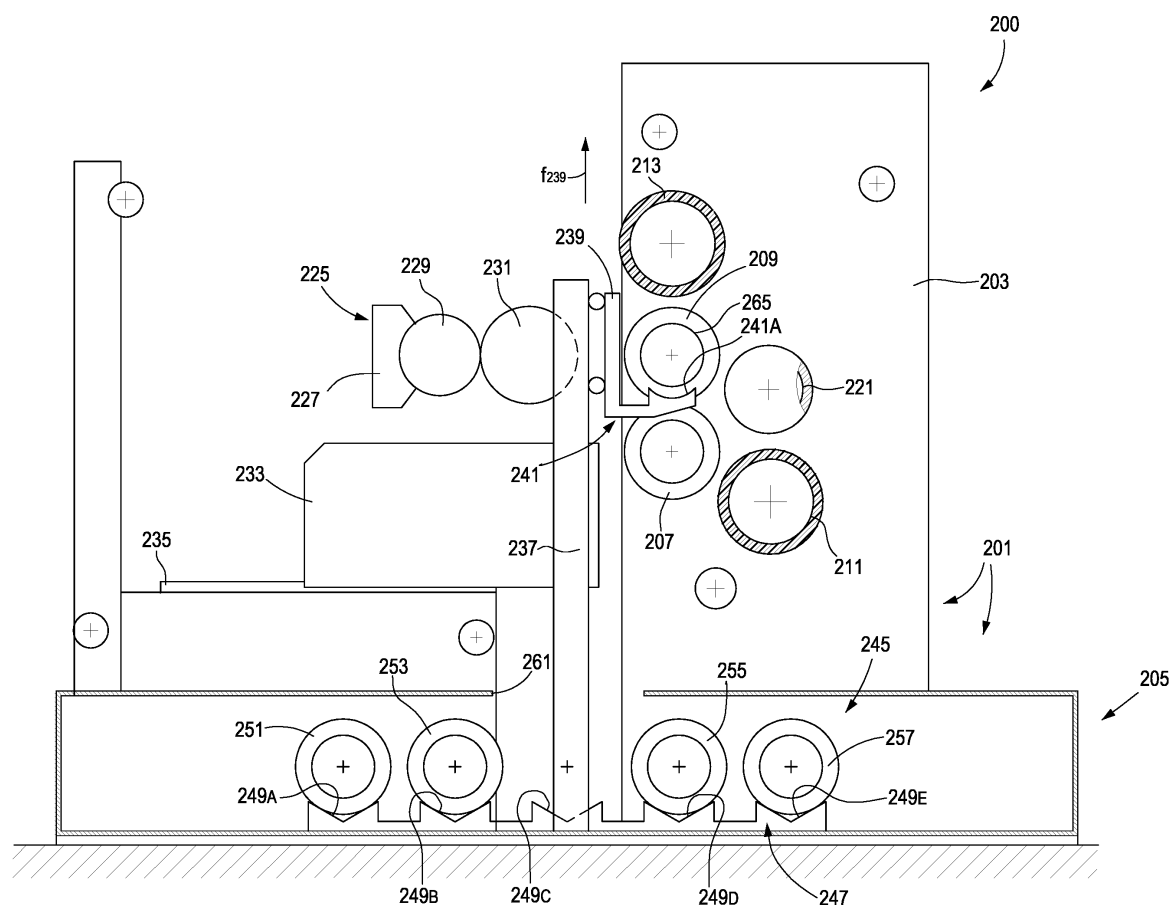
TORAY INDUSTRIES

Family 3/24 - FAMPAT - ©Questel

**Title**

(EP3126132)

Embossing-laminating device

**Images****Publication numbers with kind code & date**

|                                |    |            |                |
|--------------------------------|----|------------|----------------|
| <a href="#">CN106457734</a>    | B  | 2019-08-06 | CN106457734B   |
| <a href="#">US10220591</a>     | B2 | 2019-03-05 | US10220591     |
| <a href="#">BR112016022987</a> | A2 | 2017-08-15 | BR112016022987 |
| <a href="#">MX2016012956</a>   | A  | 2017-05-01 | MX2016012956   |
| <a href="#">JP2017510488</a>   | A  | 2017-04-13 | JP2017510488   |
| <a href="#">CN106457734</a>    | A  | 2017-02-22 | CN106457734    |
| <a href="#">EP3126132</a>      | A1 | 2017-02-08 | EP3126132      |
| <a href="#">US20170028666</a>  | A1 | 2017-02-02 | US20170028666  |
| <a href="#">KR20160144989</a>  | A  | 2016-12-19 | KR20160144989  |
| <a href="#">BR112016022987</a> | A1 | 2016-11-01 | BR112016022987 |
| <a href="#">CA2944818</a>      | A1 | 2015-10-08 | CA2944818      |
| <a href="#">WO2015/150452</a>  | A1 | 2015-10-08 | WO2015150452   |

**Abstract**

(EP3126132)

The embossing-laminating device (1) comprises load bearing structure with at least two side members (203), a first path, for a first ply (V1) of web material, and a second path for a second ply (V2) of web material. Along the first path, a first **pressure roller** (211) and a first interchangeable embossing **roller** (207) are arranged, which define therebetween a first embossing nip (215) for the first ply (V1) of web material. Along the second path a second **pressure roller** (213) and a second interchangeable embossing **roller** (209) are arranged, which define a second embossing nip (219) for the second

ply (V2) of web material. The embossing-laminating device also comprises a magazine (245) comprising a plurality of seats (249A-249E) for a plurality of interchangeable embossing rollers, as well as at least a first manipulator (241) for replacing embossing rollers.

## Inventors

MONTAGNANI FRANCO

MUCHETTI ALESSANDRO

RICCI MAURO

### Latest standardized assignees - inventors removed

PERINI FABIO

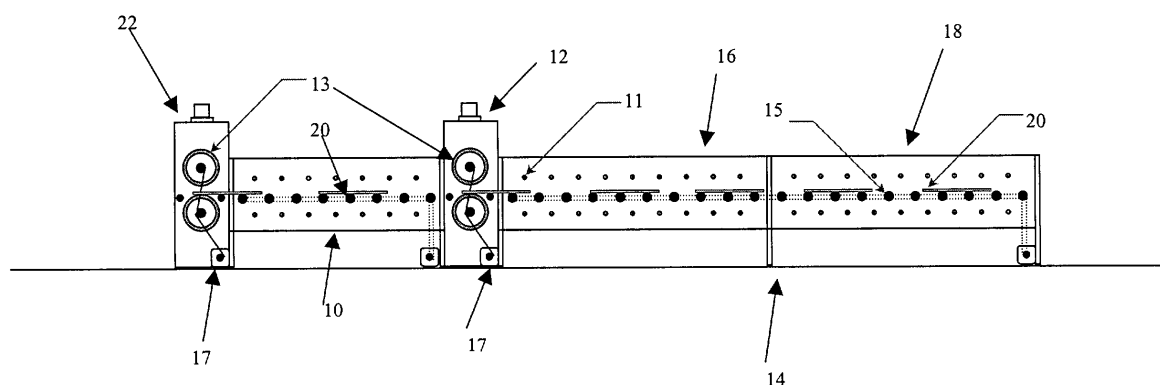
Family 4/24 - FAMPAT - ©Questel

## Title

(EP1458564)

## Glass lamination process and apparatus

## Images



### Publication numbers with kind code & date

|                   |    |            |               |
|-------------------|----|------------|---------------|
| CA2471510         | C  | 2012-11-27 | CA2471510     |
| BRPI0215384       | A2 | 2012-02-22 | BR200215384   |
| JP4699695         | B2 | 2011-03-11 | JP4699695     |
| VN0008763         | B  | 2010-11-25 | VN---8763B    |
| IN241495          | B  | 2010-07-16 | IN-241495     |
| KR100966283       | B1 | 2010-06-28 | KR100966283   |
| US7704342         | B2 | 2010-04-27 | US7704342     |
| IN6479/CHENP/2009 | A  | 2010-03-05 | IN2009CN06479 |
| SI1458564         | T1 | 2009-08-31 | SI1458564T    |
| DK1458564         | T3 | 2009-08-10 | DK1458564T    |
| ES2324210         | T3 | 2009-08-03 | ES2324210     |
| DE60232183        | D1 | 2009-06-10 | DE60232183    |
| PT1458564         | E  | 2009-05-19 | PT1458564     |
| AT430025          | T  | 2009-05-15 | ATE430025     |
| EP1458564         | B1 | 2009-04-29 | EP1458564     |
| CN100410070       | C  | 2008-08-13 | CN100410070C  |
| AP1871            | A  | 2008-07-28 | AP---1871     |
| AU2002360716      | B2 | 2008-07-24 | AU2002360716  |
| IL162701          | B  | 2008-03-20 | IL-162701     |
| RU2315735         | C2 | 2008-01-27 | RU2315735     |
| TWI279316         | B  | 2007-04-21 | TWI279316     |
| NZ534134          |    |            |               |



|                               |    |            |                |                                                                                   |                                                                                   |                                                                                     |                                                                                     |
|-------------------------------|----|------------|----------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                               | A  | 2006-03-31 | NZ-534134      |  |  |  |  |
| <a href="#">IL162701</a>      | A  | 2005-11-20 | IL-162701      |  |  |  |  |
| <a href="#">ZA200405066</a>   | B  | 2005-07-27 | ZA200405066    |  |  |  |  |
| <a href="#">JP2005514306</a>  | A  | 2005-05-19 | JP2005514306   |  |  |  |  |
| <a href="#">CN1617796</a>     | A  | 2005-05-18 | CN1617796      |  |  |  |  |
| <a href="#">RU2004122917</a>  | A  | 2005-03-27 | RU2004122917   |  |  |  |  |
| <a href="#">BR0215384</a>     | A  | 2004-12-07 | BR200215384    |  |  |  |  |
| <a href="#">BRPI0215384</a>   | A1 | 2004-12-07 | BRPI0215384    |  |  |  |  |
| <a href="#">MXPA04006394</a>  | A  | 2004-10-04 | MX2004PA006394 |  |  |  |  |
| <a href="#">EP1458564</a>     | A1 | 2004-09-22 | EP1458564      |  |  |  |  |
| <a href="#">UA77480</a>       | C2 | 2004-09-15 | UA--77480      |  |  |  |  |
| <a href="#">KR20040078655</a> | A  | 2004-09-10 | KR20040078655  |  |  |  |  |
| <a href="#">NO20043175</a>    | L  | 2004-07-26 | NO20043175     |  |  |  |  |
| <a href="#">AP200403077</a>   | A0 | 2004-06-30 | AP200403077    |  |  |  |  |
| <a href="#">TW200303262</a>   | A  | 2003-09-01 | TW200303262    |  |  |  |  |
| <a href="#">US20030148114</a> | A1 | 2003-08-07 | US20030148114  |  |  |  |  |
| <a href="#">AU2002360716</a>  | A1 | 2003-07-24 | AU2002360716   |  |  |  |  |
| <a href="#">CA2471510</a>     | A1 | 2003-07-17 | CA2471510      |  |  |  |  |
| <a href="#">WO03/57478</a>    | A1 | 2003-07-17 | WO200357478    |  |  |  |  |

**Abstract**

(EP1458564)

Glass laminates are prepared using low-water content plastic interlayer material, such as polyvinylbutyral interlayer sheets, by a process employing nip roll de-airing, and high temperature finishing at atmospheric **pressure**.

**Inventors**

BOURCIER DAVID PAUL

KORAN FRANCOIS ANDRE

CROMMEN JAN HERBERT LILIANE

**Latest standardized assignees - inventors removed**

SOLUTIA

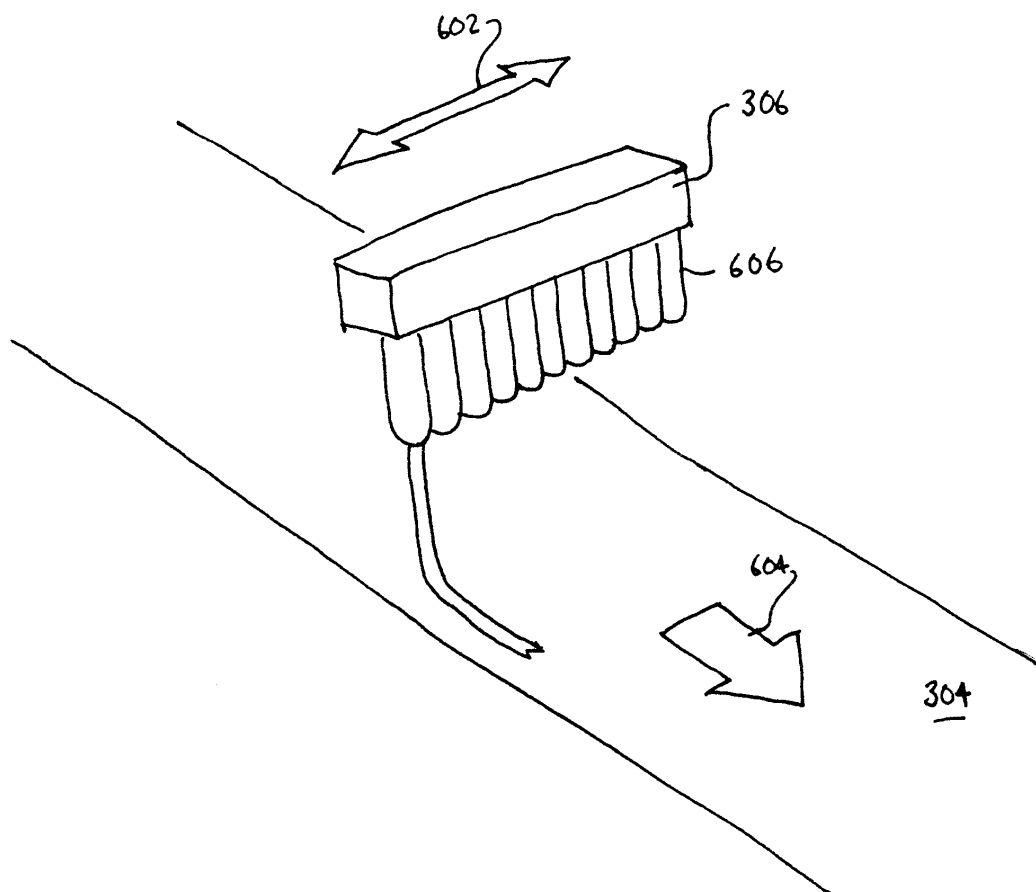
Family 5/24 - FAMPAT - ©Questel

**Title**

(EP2324999)

Process and equipment for manufacture of advanced composite structures

**Images**



#### Publication numbers with kind code & date

|                               |    |            |               |
|-------------------------------|----|------------|---------------|
| <a href="#">US8007894</a>     | B2 | 2011-08-30 | US8007894     |
| <a href="#">EP2324999</a>     | A1 | 2011-05-25 | EP2324999     |
| <a href="#">DE60144380</a>    | D1 | 2011-05-19 | DE60144380    |
| <a href="#">AT504431</a>      | T  | 2011-04-15 | ATE504431     |
| <a href="#">JP4718758</a>     | B2 | 2011-04-08 | JP4718758     |
| <a href="#">EP1315613</a>     | B1 | 2011-04-06 | EP1315613     |
| <a href="#">KR100797269</a>   | B1 | 2008-01-23 | KR100797269   |
| <a href="#">US20070218795</a> | A1 | 2007-09-20 | US20070218795 |
| <a href="#">US7235149</a>     | B2 | 2007-06-26 | US7235149     |
| <a href="#">EP1315613</a>     | A4 | 2006-10-11 | EP1315613     |
| <a href="#">US20050236093</a> | A1 | 2005-10-27 | US20050236093 |
| <a href="#">US6939423</a>     | B2 | 2005-09-06 | US6939423     |
| <a href="#">CN1155466</a>     | C  | 2004-06-30 | CN1155466C    |
| <a href="#">JP2004504962</a>  | A  | 2004-02-19 | JP2004504962  |
| <a href="#">US20030217802</a> | A1 | 2003-11-27 | US20030217802 |
| <a href="#">CN1447746</a>     | A  | 2003-10-08 | CN1447746     |
| <a href="#">US6607626</a>     | B2 | 2003-08-19 | US6607626     |
| <a href="#">EP1315613</a>     | A1 | 2003-06-04 | EP1315613     |
| <a href="#">KR20030043920</a> | A  | 2003-06-02 | KR20030043920 |
| <a href="#">US20020059976</a> | A1 | 2002-05-23 | US20020059976 |
| <a href="#">AU8086101</a>     | A  | 2002-02-13 | AU200180861   |
| <a href="#">WO02/09935</a>    | A1 | 2002-02-07 | WO200209935   |



#### Abstract

(EP2324999)

This invention relates to a method for continuously making a tailored blank comprising a first group of fibers and a second group of fibers, the method comprising: providing a first relative displacement between a dispensing head and a table while dispensing through the dispensing head onto the table the first group of fibers, such that the first group of fibers is aligned in a direction determined by the first relative displacement; turning the dispensing head on and off to intermittently dispense the first group of fibers; providing a second relative displacement between the dispensing head and the table while dispensing through the dispensing head onto the first group of fibers the second group of fibers, such that the second group of fibers is dispensed at an angle to the direction, the angle determined by the second relative displacement; and turning the dispensing head on and off to intermittently dispense the second group of fibers.

## Inventors

TAGGART DAVID

### Latest standardized assignees - inventors removed

DIEFFENBACHER

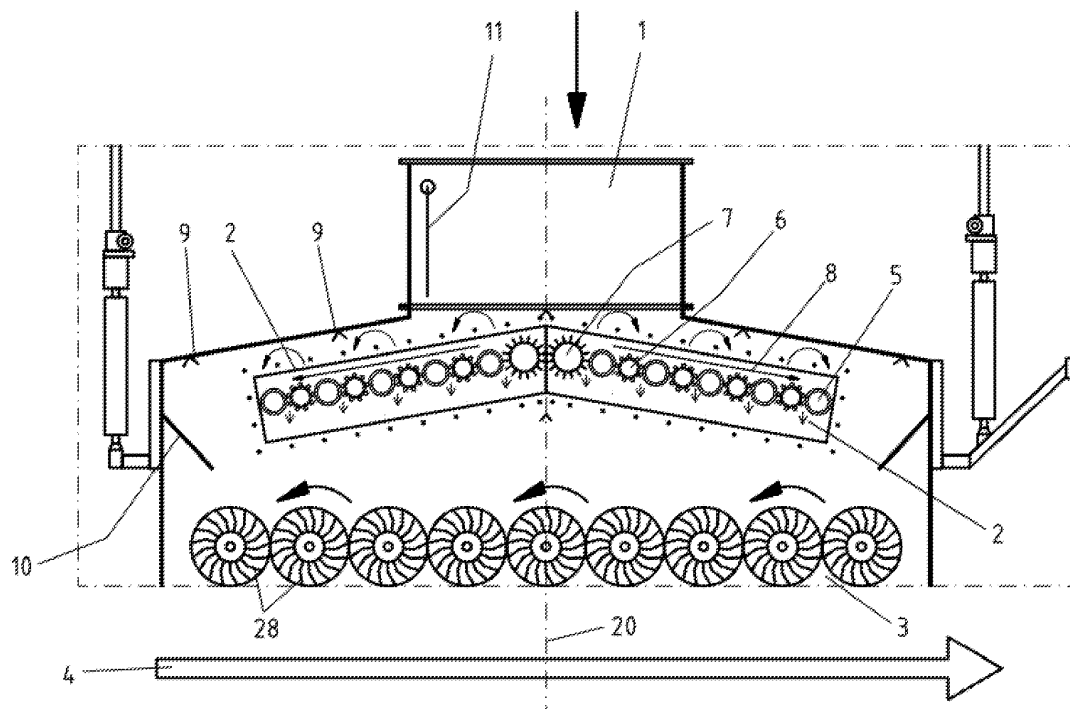
Family 6/24 - FAMPAT - ©Questel

## Title

(EP3280575)

Panel

## Images



### Publication numbers with kind code & date

|               |    |            |              |
|---------------|----|------------|--------------|
| EP3280575     | B1 | 2019-10-02 | EP3280575    |
| JP3215714     | U  | 2018-04-12 | JP3215714U   |
| EP3280575     | A2 | 2018-02-14 | EP3280575    |
| AU2016245078  | A1 | 2017-09-28 | AU2016245078 |
| WO2016/162244 | A3 | 2017-01-19 | WO2016162244 |
| CN205870800   | U  | 2017-01-11 | CN205870800U |
| CN106042137   | A  | 2016-10-26 | CN106042137  |
| CA2979599     | A1 | 2016-10-13 | CA2979599    |



[US20160297096](#)

A1 2016-10-13

US20160297096

[WO2016/162244](#)

A2 2016-10-13

WO2016162244

**Abstract**

(EP3280575)

The invention relates to a method for producing a panel, to a panel produced by said method and to a forming head and outer-layer forming head for producing a straw-strand-based panel. With the aid of a forming head comprising pairs of directly adjacent smooth rolls (5) and planetary gear rolls (6), both long and short stalk half-sections can be spread uniformly on a conveyor belt (4), across the entire length of the forming head. Paddle wheels provide a transverse orientation, especially of long stalk half-sections. Therefore, high-density panels with minimal variability of thickness in the longitudinal direction and with a smooth surface can be produced. The combination of one forming head and two outer-layer forming heads, in which all the spindles (17, 18) arranged in a pyramid rotate in only one uniform spindle rotational direction (15), allows different panel types, having different layer characteristics and stalk length differentials in cross-section, to be produced with minimal complexity and particular flexibility.

**Inventors**

NIJSSE JEROEN

**Latest standardized assignees - inventors removed**

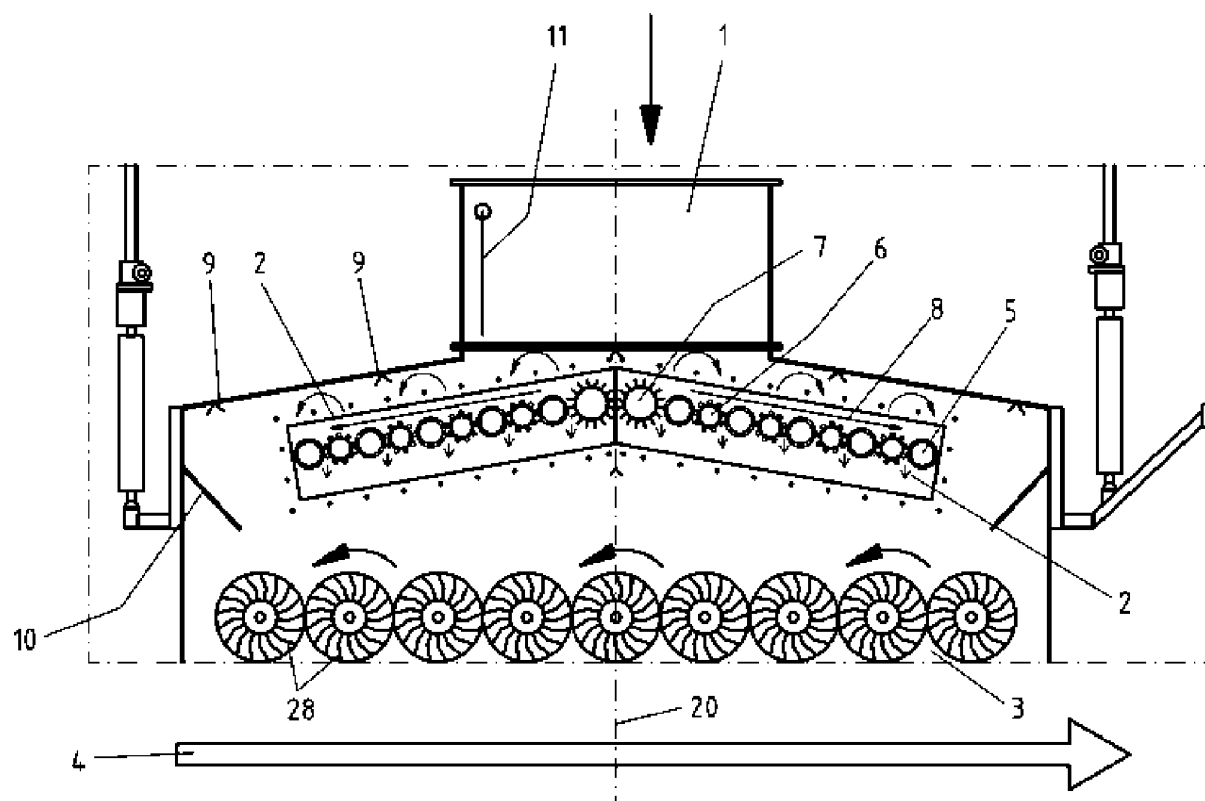
MAYFAIR VERMOEGENSVERWALTUNGS

Family 7/24 - FAMPAT - ©Questel

**Title**

(DE102015209759)

Spreading head, method and panel

**Images****Publication numbers with kind code & date**[DE102015209759](#)

A1 2016-12-01

DE102015209759

**Abstract**

(DE102015209759)

The invention relates to a method for manufacturing a panel, a produced according to said method spreading head and outer layer of the scattering head and a panel of manufacturing a panel on the basis of stalk plants. A spreading head with

pairs immediately adjacent burnishing and planetary rollers can both long and short stalk half-shell over the entire length of the spreading head uniformly scattered on a conveyor belt. Blades provide transverse orientation particularly for long straw half-shell. Panels with high density, low density distribution in the longitudinal direction and smooth surface can be prepared. The combination of a spreading head with two skin scattering heads, in which all the pyramid-like spindles in a single unit spindle rotational direction turning, with very little effort and very flexible and different types of panels having multiple, various textured layers and longitudinal gradient in the cross section are.

#### Inventors

NIJSSE JEROEN

#### Latest standardized assignees - inventors removed

MAYFAIR VERMÖGENSVERWALTUNGS

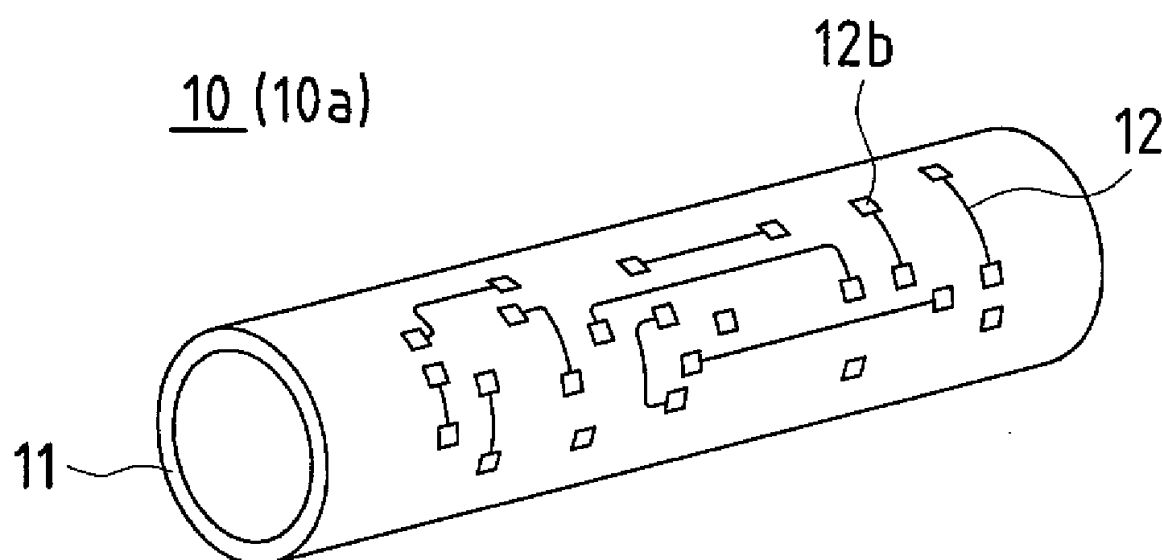
Family 8/24 - FAMPAT - ©Questel

#### Title

(US20080118681)

Printed wiring board manufacturing apparatus, printed wiring board, method for manufacturing printed wiring board, and electronic device

#### Images



#### Publication numbers with kind code & date

|                               |    |            |               |
|-------------------------------|----|------------|---------------|
| <a href="#">JP2008130764</a>  | A  | 2008-06-05 | JP2008130764  |
| <a href="#">CN101188907</a>   | A  | 2008-05-28 | CN101188907   |
| <a href="#">US20080118681</a> | A1 | 2008-05-22 | US20080118681 |



#### Abstract

(US20080118681)

According to an embodiment of the present invention, a printed wiring board manufacturing apparatus being provided with a drum unit having a processing **cylinder** that holds the printed wiring board material and comprises a **cylinder** outer circumference and a processing unit that performs processing on the printed wiring board material held by the processing **cylinder**.

#### Inventors

UENO YUKIHIRO

#### Latest standardized assignees - inventors removed

SHARP

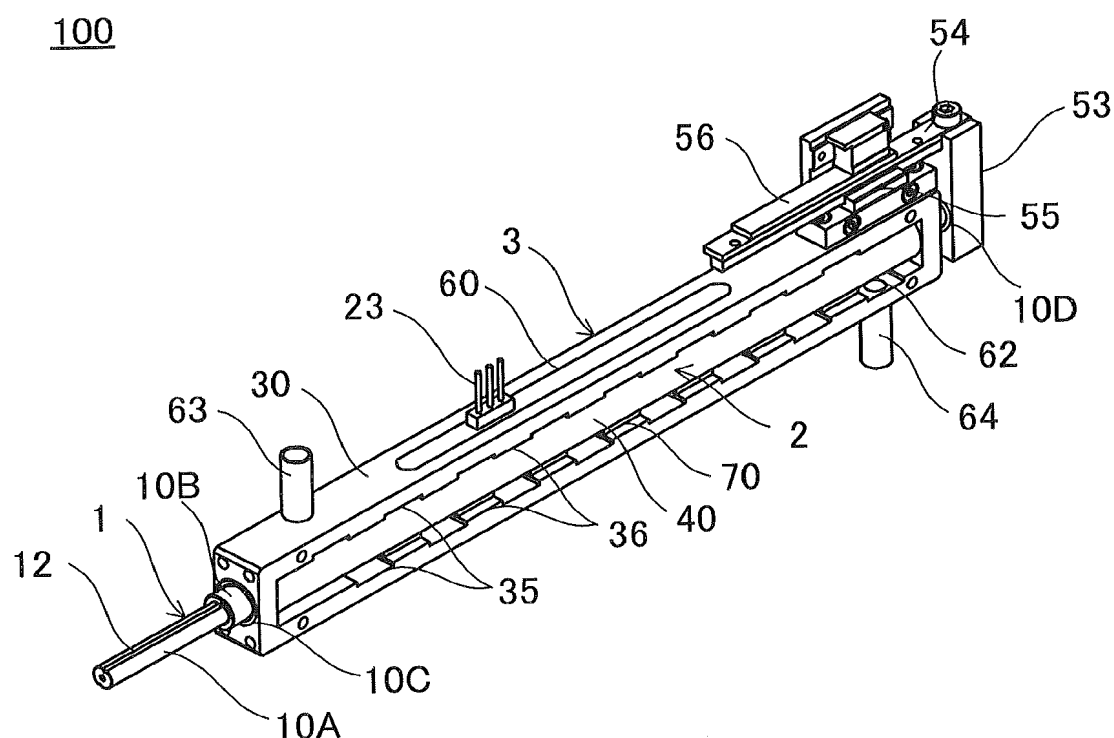
Family 9/24 - FAMPAT - ©Questel

#### Title

(US9712030)

## Shaft rotary type linear motor and shaft rotary type linear motor unit

## Images

100

## Publication numbers with kind code &amp; date

|                                |    |            |                |
|--------------------------------|----|------------|----------------|
| <a href="#">KR10-1952145</a>   | B1 | 2019-02-26 | KR101952145    |
| <a href="#">TWI618338</a>      | B  | 2018-03-11 | TWI618338      |
| <a href="#">US9712030</a>      | B2 | 2017-07-18 | US9712030      |
| <a href="#">JP6082646</a>      | B2 | 2017-01-27 | JP6082646      |
| <a href="#">CN104124853</a>    | B  | 2017-01-18 | CN104124853B   |
| <a href="#">HK1199558</a>      | A1 | 2015-07-03 | HK1199558      |
| <a href="#">TW201507328</a>    | A  | 2015-02-16 | TW201507328    |
| <a href="#">JP2014217180</a>   | A  | 2014-11-17 | JP2014217180   |
| <a href="#">KR20140127764</a>  | A  | 2014-11-04 | KR20140127764  |
| <a href="#">DE102014105677</a> | A1 | 2014-10-30 | DE102014105677 |
| <a href="#">US20140319934</a>  | A1 | 2014-10-30 | US20140319934  |
| <a href="#">CN104124853</a>    | A  | 2014-10-29 | CN104124853    |



## Abstract

(US20140319934)

The present invention provides a shaft rotary type linear motor that enables a movable element to rotate and linearly move by using a simple structure, and can therefore support compact, space-saving and lightweight designs. The shaft rotary type linear motor includes: a shaft; an outer **cylinder**; a hollow movable element having a plurality of permanent magnets within the outer **cylinder**; an armature surrounding the hollow movable element and having a plurality of coils; and a frame containing the armature. The shaft is supported by a rotatable and linearly movable linear guide.

## Inventors

TANG YUQI

SUGITA SATOSHI

## Latest standardized assignees - inventors removed

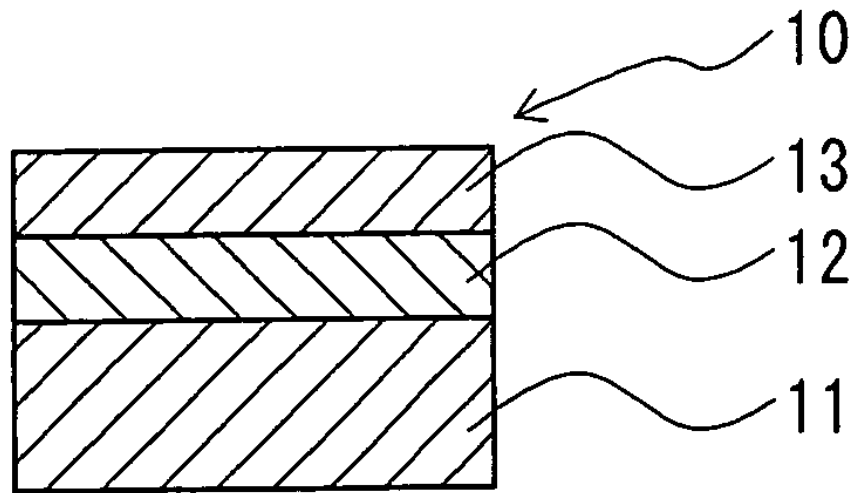
SANYO ELECTRIC

Family 10/24 - FAMPAT - ©Questel

**Title**

(EP1995334)

Method for processing metal body and apparatus for processing metal body

**Images****Publication numbers with kind code & date**

|                                |    |            |               |
|--------------------------------|----|------------|---------------|
| <a href="#">US8394214</a>      | B2 | 2013-03-12 | US8394214     |
| <a href="#">CN101240366</a>    | B  | 2012-11-21 | CN101240366B  |
| <a href="#">KR101140918</a>    | B1 | 2012-07-03 | KR101140918   |
| <a href="#">AT527069</a>       | T  | 2011-10-15 | ATE527069     |
| <a href="#">EP1607151</a>      | B1 | 2011-10-05 | EP1607151     |
| <a href="#">JP4777775</a>      | B2 | 2011-07-08 | JP4777775     |
| <a href="#">CN1758966</a>      | B  | 2010-04-21 | CN1758966B    |
| <a href="#">US20090101239</a>  | A1 | 2009-04-23 | US20090101239 |
| <a href="#">US20090102104</a>  | A1 | 2009-04-23 | US20090102104 |
| <a href="#">EP1995334</a>      | A2 | 2008-11-26 | EP1995334     |
| <a href="#">CN101240366</a>    | A  | 2008-08-13 | CN101240366   |
| <a href="#">EP1607151</a>      | A4 | 2007-04-25 | EP1607151     |
| <a href="#">US20060157168</a>  | A1 | 2006-07-20 | US20060157168 |
| <a href="#">CN1758966</a>      | A  | 2006-04-12 | CN1758966     |
| <a href="#">KR20060018816</a>  | A  | 2006-03-02 | KR20060018816 |
| <a href="#">EP1607151</a>      | A1 | 2005-12-21 | EP1607151     |
| <a href="#">JPWO2004080625</a> | A1 | 2004-09-23 | JP2004080625W |
| <a href="#">WO2004/080625</a>  | A1 | 2004-09-23 | WO2004080625  |

**Abstract**

(EP1995334)

In a method and an apparatus for processing a metal body which turns the metal structure of the metal body into a finer grain structure by forming a low deformation resistance region (30') where the deformation resistance is locally lowered in the metal body and by deforming the low deformation resistance region (30') by shearing, the low deformation resistance region (30') is formed in a vacuum, in a high **pressure** atmosphere or in an active gas atmosphere.

**Inventors**

NAKAMURA KATSUAKI

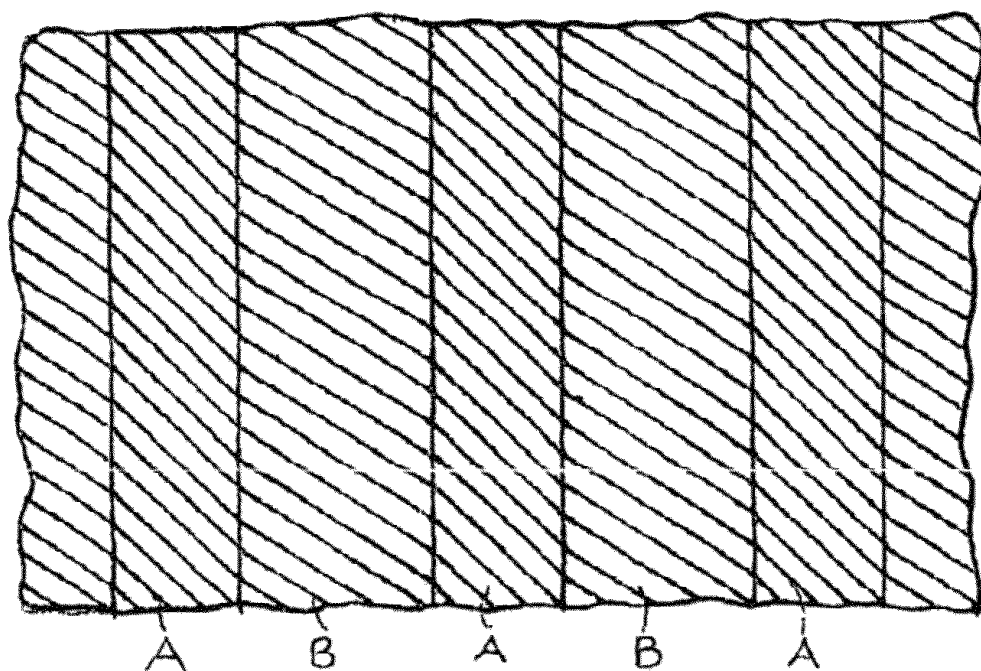
KANeko KENJI

## RINASCIMETALLI

## Title

Film material exhibiting textile properties and method and apparatus for its manufacture

## Images

|                   |    |            |               |                                                                                     |                                                                                      |                                                                                       |                                                                                       |
|-------------------|----|------------|---------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| BRPI0906789       | A2 | 2015-07-14 | BR200906789   |                                                                                     |                                                                                      |                                                                                       |                                                                                       |
| CN102105292       | B  | 2015-06-17 | CN102105292B  |    |    |    |    |
| EP2244874         | B8 | 2015-01-21 | EP2244874     |    |    |    |    |
| JP5628168         | B2 | 2014-10-10 | JP5628168     |    |    |    |    |
| HK1151766         | A1 | 2014-07-11 | HK1151766     |    |    |    |    |
| AU2009204794      | B2 | 2014-07-10 | AU2009204794  |    |    |    |    |
| US8747713         | B2 | 2014-06-10 | US8747713     |    |    |    |    |
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| RU2498902         | C2 | 2013-11-20 | RU2498902     |    |    |    |    |
| CN101909856       | B  | 2013-10-30 | CN101909856B  |    |    |    |    |
| US8557364         | B2 | 2013-10-15 | US8557364     |    |    |    |    |
| NZ591455          | A  | 2013-08-30 | NZ-591455     |    |    |    |    |
| RU2486058         | C2 | 2013-06-27 | RU2486058     |    |    |    |    |
| NZ587044          | A  | 2013-03-28 | NZ-587044     |    |    |    |    |
| ES2394102         | T3 | 2013-01-17 | ES2394102     |    |    |    |    |
| RU2011108568      | A  | 2012-09-10 | RU2011108568  |    |    |    |    |
| EP2244874         | B1 | 2012-08-29 | EP2244874     |    |    |    |    |
| PT2321116         | E  | 2012-08-14 | PT2321116     |    |    |    |    |
| IN1432/CHENP/2011 | A  | 2012-06-01 | IN2011CN01432 |    |    |    |    |
| AT556837          | T  | 2012-05-15 | ATE556837     |   |   |   |   |
| EP2321116         | B1 | 2012-05-09 | EP2321116     |  |  |  |  |
| RU2010134368      | A  | 2012-02-27 | RU2010134368  |  |  |  |  |
| JP2011529811      | A  | 2011-12-15 | JP2011529811  |  |  |  |  |
| US20110210471     | A1 | 2011-09-01 | US20110210471 |  |  |  |  |
| CN102105292       | A  | 2011-06-22 | CN102105292   |  |  |  |  |
| EP2321116         | A1 | 2011-05-18 | EP2321116     |  |  |  |  |
| IL211005          | A  | 2011-04-28 | IL-211005     |  |  |  |  |
| MX2011001310      | A  | 2011-04-26 | MX2011001310  |  |  |  |  |
| JP2011510835      | A  | 2011-04-07 | JP2011510835  |  |  |  |  |
| IN5067/CHENP/2010 | A  | 2011-03-11 | IN2010CN05067 |  |  |  |  |
| CN101909856       | A  | 2010-12-08 | CN101909856   |  |  |  |  |
| US20100297387     | A1 | 2010-11-25 | US20100297387 |  |  |  |  |
| MX2010007733      | A  | 2010-11-12 | MX2010007733  |  |  |  |  |
| EP2244874         | A1 | 2010-11-03 | EP2244874     |  |  |  |  |
| AU2009278133      | A1 | 2010-02-11 | AU2009278133  |  |  |  |  |
| CA2731057         | A1 | 2010-02-11 | CA2731057     |  |  |  |  |
| WO2010/015512     | A1 | 2010-02-11 | WO201015512   |  |  |  |  |
| TW200948593       | A  | 2009-12-01 | TW200948593   |  |  |  |  |
| AU2009204794      | A1 | 2009-07-23 | AU2009204794  |  |  |  |  |
| CA2710689         | A1 | 2009-07-23 | CA2710689     |  |  |  |  |
| WO2009/090208     | A1 | 2009-07-23 | WO200990208   |  |  |  |  |
| GB0814308         | D0 | 2008-09-10 | GB200814308   |  |  |  |  |

**Abstract**

(EP2244874)

A film material formed of thermoplastic polymer material is processed so as to have linearly extending regions (A) linked together by linearly extending webs (B), regions (A) and webs (B) each being oriented, the dominant direction of orientation in regions (A) forming an angle ( $\theta$ ) to the direction on which (A) extends and webs (B) comprising arrays of linear furrows

of thinner material or splits forming angles (U) higher than (V) to the direction in which (A) extends. The method of producing the new film involves passing an orientated film through a pair of intermeshing grooved rollers to cold-stretch the film in a direction at an angle to the predominant original orientation, at least one of the grooved rollers having crests with sharp edges to form the division between regions A and webs B and to stretch the material to form webs B while stretching the material less or not at all to form regions A. Preferably at least one of the grooved rollers has crests with a waved surface shape.

#### Inventors

RASMUSSEN OLE-BENDT

RASMUSSEN NIKOLAJ WETTERGREN

**Latest standardized assignees - inventors removed**

SUPREME INDUSTRIES

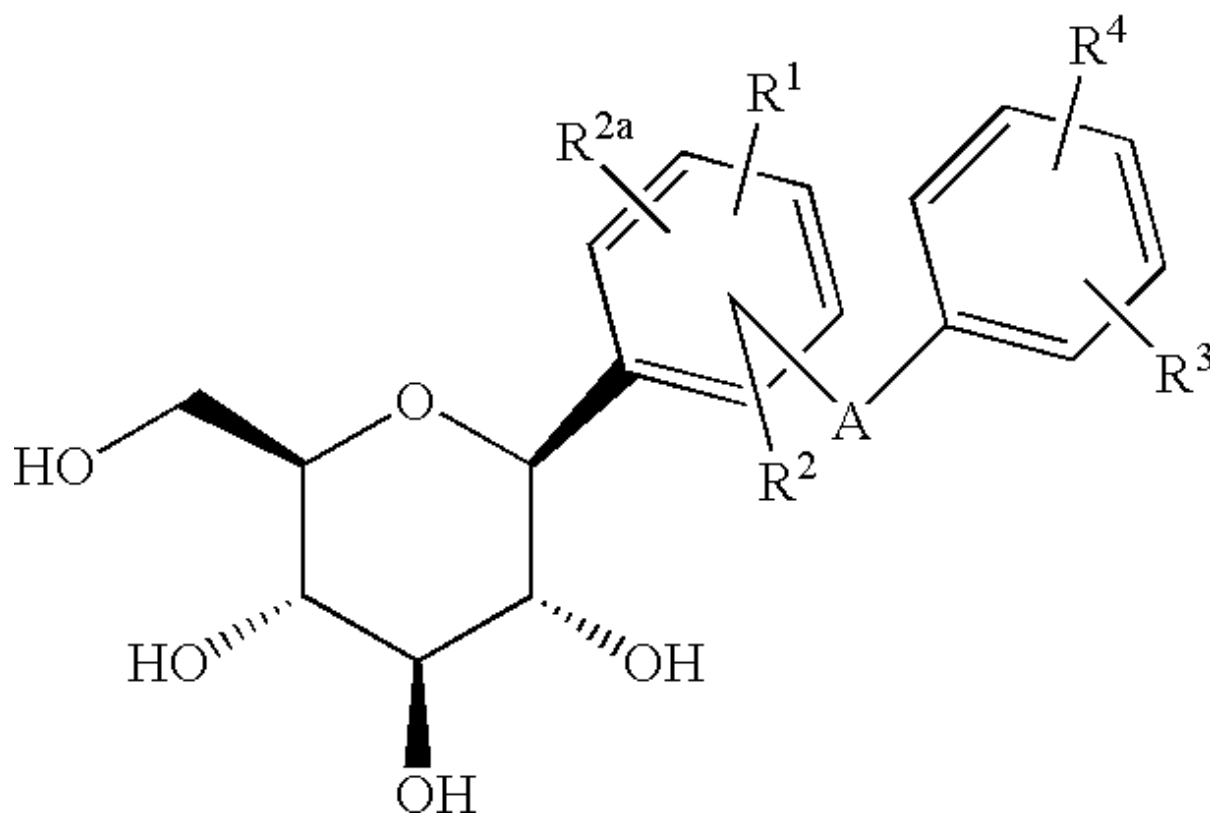
Family 12/24 - FAMPAT - ©Questel

#### Title

(EP1224195)

C-aryl glucoside sglt2 inhibitors

#### Images



#### Publication numbers with kind code & date

|                                |    |            |                |
|--------------------------------|----|------------|----------------|
| <a href="#">BRPI0014722</a>    | B1 | 2019-09-24 | BR200014722    |
| <a href="#">BRPI0014722</a>    | A2 | 2019-08-20 | BRPI0014722    |
| <a href="#">RU2017131447</a>   | A  | 2019-03-07 | RU2017131447   |
| <a href="#">LU92182</a>        | I9 | 2019-01-04 | LU--92182      |
| <a href="#">TH65638</a>        | B  | 2018-10-17 | TH--65638B     |
| <a href="#">BR122017015091</a> | B1 | 2018-05-15 | BR122017015091 |
| <a href="#">RU2643764</a>      | C2 | 2018-02-05 | RU2643764      |
| <a href="#">HU230727</a>       | B1 | 2017-12-28 | HU-230727      |
| <a href="#">BR122017015091</a> | A2 | 2017-10-10 | BR122017015091 |
| <a href="#">BRPI0311323</a>    | B1 | 2017-09-26 | BR200311323    |
| <a href="#">BR122017015091</a> | A8 | 2017-07-25 | BR122017015091 |
| <a href="#">BRPI0311323</a>    |    |            |                |



|                   |    |            |               |                                                                                     |                                                                                      |                                                                                       |                                                                                       |
|-------------------|----|------------|---------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|                   | A8 | 2017-07-11 | BRPI0311323   |    |    |    |    |
| BRPI0311323       | A8 | 2015-12-22 | BR200311323   |    |    |    |    |
| HK1205120         | A1 | 2015-12-11 | HK1205120     |    |    |    |    |
| IN269610          | B  | 2015-10-30 | IN-269610     |    |    |    |    |
| CN104230866       | A  | 2014-12-24 | CN104230866   |    |    |    |    |
| RU2013115635      | A  | 2014-10-20 | RU2013115635  |    |    |    |    |
| LU92496           | I2 | 2014-09-10 | LU--92496     |    |    |    |    |
| JP5604568         | B2 | 2014-08-29 | JP5604568     |    |    |    |    |
| CN102627676       | B  | 2014-08-20 | CN102627676B  |    |    |    |    |
| JP5584738         | B2 | 2014-07-25 | JP5584738     |    |    |    |    |
| CZ304522          | B6 | 2014-06-18 | CZ-304522     |    |    |    |    |
| JP2014028807      | A  | 2014-02-13 | JP2014028807  |    |    |    |    |
| HU229446          | B1 | 2013-12-30 | HU-229446     |    |    |    |    |
| JP5340077         | B2 | 2013-08-16 | JP5340077     |    |    |    |    |
| RU2489151         | C2 | 2013-08-10 | RU2489151     |    |    |    |    |
| LU92182           | I2 | 2013-06-17 | LU--92182     |    |    |    |    |
| NO2013007         | I1 | 2013-04-29 | NO2013007     |    |    |    |    |
| NO2013007         | I2 | 2013-04-12 | NO2013007     |   |   |   |   |
| NO332798          | B1 | 2013-01-14 | NO-332798     |  |  |  |  |
| JP2012207037      | A  | 2012-10-25 | JP2012207037  |  |  |  |  |
| JP5090621         | B2 | 2012-09-21 | JP5090621     |  |  |  |  |
| CN102627676       | A  | 2012-08-08 | CN102627676   |  |  |  |  |
| CA2388818         | C  | 2012-07-03 | CA2388818     |  |  |  |  |
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| CN101628905       | B  | 2012-03-21 | CN101628905B  |  |  |  |  |
| CA2486539         | C  | 2012-03-13 | CA2486539     |  |  |  |  |
| PL210304          | B1 | 2011-12-30 | PL-210304     |  |  |  |  |
| RS51469           | B  | 2011-04-30 | RS--51469     |  |  |  |  |
| KR101021752       | B1 | 2011-03-15 | KR101021752   |  |  |  |  |
| IN245948          | B  | 2011-02-11 | IN-245948     |  |  |  |  |
| MY142499          | A  | 2010-11-30 | MY-142499     |  |  |  |  |
| ME00091           | B  | 2010-10-10 | ME-----91     |  |  |  |  |
| NO329107          | B1 | 2010-08-23 | NO-329107     |  |  |  |  |
| IL148806          | B  | 2010-06-16 | IL-148806     |  |  |  |  |
| MEP13008          | A  | 2010-06-10 | ME-P13008     |  |  |  |  |
| IL165119          | B  | 2010-03-28 | IL-165119     |  |  |  |  |
| TH27642           | B  | 2010-03-09 | TH--27642B    |  |  |  |  |
| PL204358          | B1 | 2010-01-29 | PL-204358     |  |  |  |  |
| VN0008104         | B  | 2010-01-25 | VN---8104B    |  |  |  |  |
| CN101628905       | A  | 2010-01-20 | CN101628905   |  |  |  |  |
| RU2008122558      | A  | 2009-12-20 | RU2008122558  |  |  |  |  |
| JP2009275050      | A  | 2009-11-26 | JP2009275050  |  |  |  |  |
| CN100534997       | C  | 2009-09-02 | CN100534997C  |  |  |  |  |
| JP4365554         | B2 | 2009-08-28 | JP4365554     |  |  |  |  |
| EG24515           | A  | 2009-08-19 | EG--24515     |  |  |  |  |
| IN235625          | B  | 2009-07-31 | IN-235625     |  |  |  |  |
| IN8616/DELNP/2008 | A  | 2009-06-12 | IN2008DN08616 |  |  |  |  |
| TWI310770         | B  | 2009-06-11 | TWI310770     |  |  |  |  |

|                   |    |            |               |                                                                                     |                                                                                      |                                                                                       |                                                                                       |
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| IN8561/DELNP/2008 | A  | 2009-05-01 | IN2008DN08561 |    |    |    |    |
| AU2003237886      | B2 | 2009-02-05 | AU2003237886  |    |    |                                                                                       |    |
| RU2337916         | C2 | 2008-11-10 | RU2337916     |    |    |                                                                                       |    |
| HRP20041084       | B1 | 2008-06-30 | HRP20041084   |    |    |                                                                                       |    |
| GEP20084403       | B  | 2008-06-25 | GE200804403   |    |    |                                                                                       |    |
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| DE60311649        | T2 | 2007-11-22 | DE60311649    |    |    |    |    |
| SI1506211         | T1 | 2007-10-31 | SI1506211T    |    |    |                                                                                       |    |
| MX249731          | B  | 2007-10-01 | MX-249731     |    |    |                                                                                       |    |
| ES2280759         | T3 | 2007-09-16 | ES2280759     |    |    |    |    |
| HK1068214         | A1 | 2007-08-24 | HK1068214     |    |    |                                                                                       |    |
| IN0019/MUMNP/2007 | A  | 2007-08-03 | IN2007MN00019 |    |    |    |    |
| IN19MU2007        | A  | 2007-08-03 | IN2007MU00019 |    |    |    |    |
| NO323698          | B1 | 2007-06-25 | NO-323698     |    |    |    |    |
| KR100728085       | B1 | 2007-06-14 | KR100728085   |    |    |    |    |
| TH84972           | A  | 2007-06-14 | TH--84972     |    |    |                                                                                       |    |
| NZ536605          | A  | 2007-05-31 | NZ-536605     |    |    |    |    |
| PT1506211         | E  | 2007-04-30 | PT1506211     |   |   |   |   |
| DK1506211         | T3 | 2007-04-10 | DK1506211T    |  |  |  |  |
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| AT353334          | T  | 2007-02-15 | ATE353334     |  |  |                                                                                       |  |
| EP1506211         | B1 | 2007-02-07 | EP1506211     |  |  |  |  |
| CN1896088         | A  | 2007-01-17 | CN1896088     |  |  |  |  |
| RS99204           | A  | 2006-12-15 | RS200400992   |  |  |                                                                                       |  |
| CN1284793         | C  | 2006-11-15 | CN1284793C    |  |  |  |  |
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| ZA200409295       | B  | 2006-02-22 | ZA200409295   |  |  |                                                                                       |  |
| PH12000002657     | B1 | 2006-02-21 | PH12000002657 |  |  |                                                                                       |  |
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| JP2005531588      | A  | 2005-10-20 | JP2005531588  |  |  |  |  |
| RU2262507         | C2 | 2005-10-20 | RU2262507     |  |  |                                                                                       |  |
| ES2240179         | T3 | 2005-10-16 | ES2240179     |  |  |  |  |
| PL373369          | A1 | 2005-08-22 | PL2003373369  |  |  |                                                                                       |  |
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| CN1653075         | A  | 2005-08-10 | CN1653075     |  |  |  |  |
| PT1224195         | E  | 2005-07-29 | PT1224195     |  |  |  |  |
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| RU2004137489      | A  | 2005-06-27 | RU2004137489  |  |  |                                                                                       |  |
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| AU781009          | B2 | 2005-04-28 | AU-781009     |  |  |  |  |
| IN3573/DELNP/2004 | A  | 2005-04-01 | IN2004DN03573 |  |  |  |  |
| IN3573DE2004      | A  | 2005-04-01 | IN2004DE03573 |  |  |  |  |

|                   |    |            |                |                                                                                     |                                                                                      |                                                                                       |                                                                                       |
|-------------------|----|------------|----------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| IN0433/MUMNP/2002 | A  | 2005-03-18 | IN2002MN00433  |    |    |    |    |
| BR0311323         | A  | 2005-03-15 | BR200311323    |    |    |    |    |
| BRPI0311323       | A1 | 2005-03-15 | BRPI0311323    |    |    |    |    |
| UA77306           | C2 | 2005-03-15 | UA--77306      |    |    |                                                                                       |    |
| AR040032          | A1 | 2005-03-09 | AR--40032      |    |    |                                                                                       |    |
| EP1506211         | A1 | 2005-02-16 | EP1506211      |    |    |    |    |
| MXPA04011371      | A  | 2005-02-14 | MX2004PA011371 |    |    |                                                                                       |    |
| KR20050004161     | A  | 2005-01-12 | KR20050004161  |    |    |    |    |
| NO20044915        | A  | 2004-12-16 | NO200404915    |    |    |    |    |
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| PE07602004        | A1 | 2004-11-20 | PE200400760    |    |    |                                                                                       |    |
| IS7529            | A  | 2004-11-16 | IS---7529      |    |    |                                                                                       |    |
| NZ518029          | A  | 2004-08-27 | NZ-518029      |    |    |    |    |
| TW200404813       | A  | 2004-04-01 | TW200404813    |    |    |    |    |
| PL355018          | A1 | 2004-03-22 | PL2000355018   |    |    |                                                                                       |    |
| RU2002109477      | A  | 2004-01-20 | RU2002109477   |    |    |                                                                                       |    |
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| ZA200202604       | B  | 2003-09-23 | ZA200202604    |  |  |                                                                                       |  |
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| HU0300393         | A2 | 2003-06-28 | HU200300393    |  |  |                                                                                       |  |
| CN1407990         | A  | 2003-04-02 | CN1407990      |  |  |  |  |
| JP2003511458      | A  | 2003-03-25 | JP2003511458   |  |  |  |  |
| CO5251414         | A1 | 2003-02-28 | CO5251414A1    |  |  |                                                                                       |  |
| BR0014722         | A  | 2003-02-25 | BR200014722    |  |  |  |  |
| BRPI0014722       | A1 | 2003-02-25 | BRPI0014722    |  |  |  |  |
| CZ20021285        | A3 | 2003-02-12 | CZ200201285    |  |  |                                                                                       |  |
| US6515117         | B2 | 2003-02-04 | US6515117      |  |  |  |  |
| AR026024          | A1 | 2002-12-26 | AR--26024      |  |  |                                                                                       |  |
| MXPA02003625      | A  | 2002-10-23 | MX2002PA003625 |  |  |                                                                                       |  |
| US20020137903     | A1 | 2002-09-26 | US20020137903  |  |  |  |  |
| IL148806          | A  | 2002-09-12 | IL-148806      |  |  |  |  |
| KR20020063876     | A  | 2002-08-05 | KR20020063876  |  |  |  |  |
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| TR200200986       | T2 | 2002-07-22 | TR200200986    |  |  |                                                                                       |  |
| US6414126         | B1 | 2002-07-02 | US6414126      |  |  |  |  |
| NO20021721        | L  | 2002-06-10 | NO20021721     |  |  |  |  |
| NO20070149        | L  | 2002-06-10 | NO20070149     |  |  |  |  |
| NO20021721        | D0 | 2002-04-11 | NO200201721    |  |  |                                                                                       |  |
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| AU7848300         | A  | 2001-04-23 | AU200078483    |  |  |  |  |
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| WO01/27128        | A1 | 2001-04-19 | WO200127128    |  |  |  |  |

**Abstract**

(EP1224195)

SGLT2 inhibiting compounds are provided having formula (I) where R&lt;1&gt;, R&lt;2&gt;, and R&lt;2a&gt; are independently hydrogen,

OH, OR<5>, lower alkyl, CF<sub>3</sub>, OCHF<sub>2</sub>, OCF<sub>3</sub>, SR<5i> or halogen, or two of R<1>, R<2> and R<2a> together with the carbons to which they are attached can form an annelated five, six or seven membered carbocycle or heterocycle; R<3> and R<4> are independently hydrogen, OH, OR<5a>, OAryl, OCH<sub>2</sub>Aryl, lower alkyl, cycloalkyl, CF<sub>3</sub>, -OCHF<sub>2</sub>, -OCF<sub>3</sub>, halogen, -CN, -CO<sub>2</sub>R<5b>, -CO<sub>2</sub>H, -COR<6b>, -CH(OH)R<6c>, -CH(OR<5h>)R<6d>, -CONR<6>R<6a>, -NHCOR<5c>, -NHSO<sub>2</sub>R<5d>, -NHSO<sub>2</sub>Aryl, Aryl, -SR<5e>, -SOR<5f>, SO<sub>2</sub>R<5g>, SO<sub>2</sub>Aryl, or a five, six or seven membered heterocycle, or R<3> and R<4> together with the carbons to which they are attached form an annelated five, six or seven membered carbocycle or heterocycle; R<5>, R<5a>, R<5b>, R<5c>, R<5d>, R<5e>, R<5f>, R<5g>, R<5h>, and R<5i> are independently lower alkyl; R<6>, R<6a>, R<6b>, R<6c> and R<6d> are independently hydrogen, alkyl, aryl, alkylaryl or cycloalkyl, or R<6> and R<6a> together with the nitrogen to which they are attached form an annelated five, six or seven membered heterocycle; A is O, S, NH, or (CH<sub>2</sub>)<sub>n</sub> where n is 0 - 3. A method is also provided for treating diabetes and related diseases employing an SGLT2 inhibiting amount of the above compound alone or in combination with another antidiabetic agent or other therapeutic agent.

**Inventors**

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SHER PHILIP M

WU GANG

MENG WEI

**Latest standardized assignees - inventors removed**

ASTRAZENECA

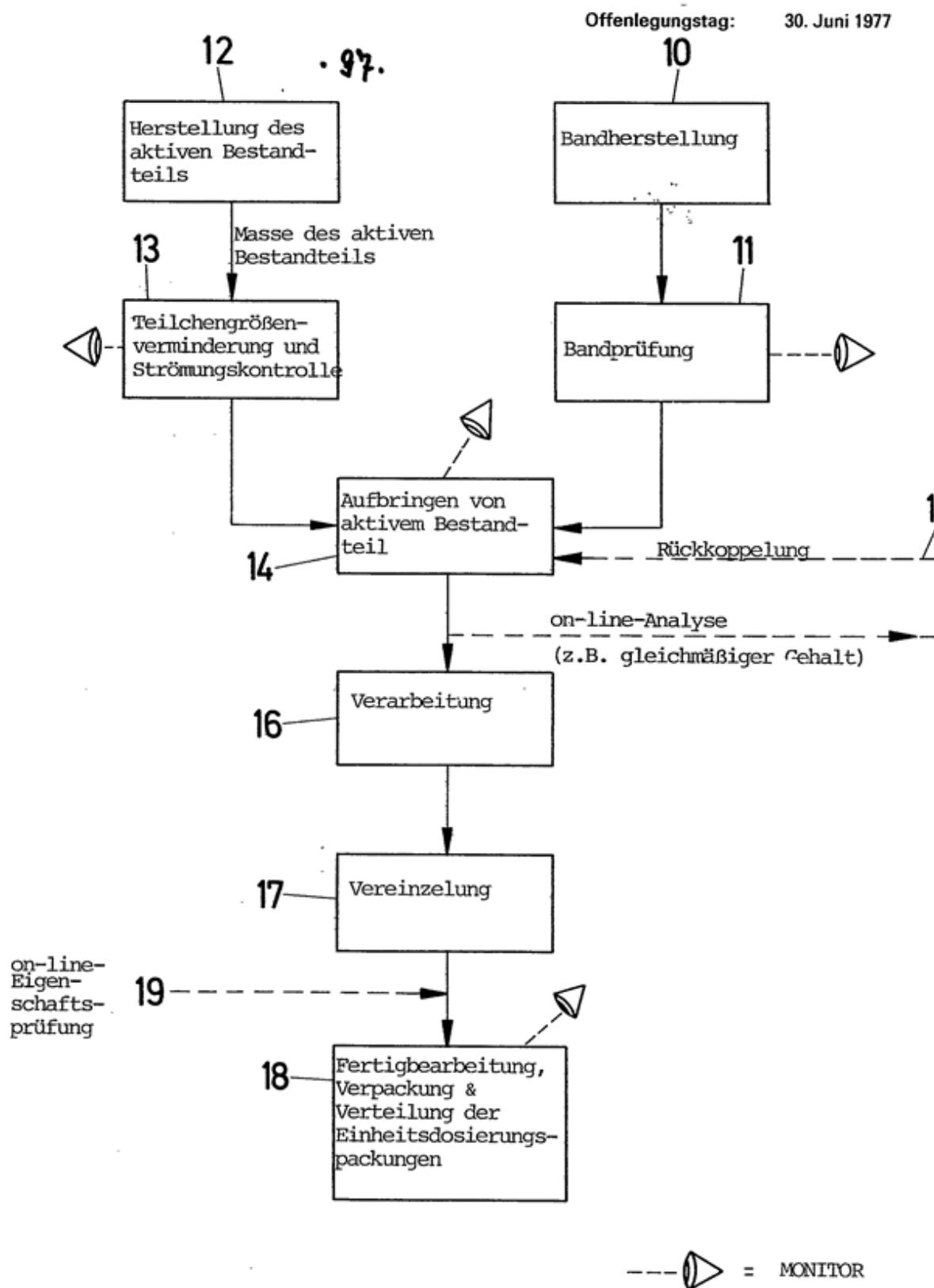
Family 13/24 - FAMPAT - ©Questel

**Title**

(FR2335206)

NEW DOSAGE FORM

**Images**



P 26 56 387.1  
Hoffmann-La Roche & Co. AG  
A-48 682

FIG 1

## Publication numbers with kind code &amp; date

|          |   |            |            |
|----------|---|------------|------------|
| DK152172 | C | 1988-06-27 | DK-152172C |
| DK152172 | B | 1988-02-08 | DK-152172  |
| FI69243  | C | 1986-01-10 | FI-69243   |
| FI69243  | B | 1985-09-30 | FI-69243   |
| NL176835 | C | 1985-06-17 | NL-176835  |
| NL176835 |   |            |            |



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|-----------|----|------------|-----------|
|           | B  | 1985-01-16 | NL-176835 |
| GR81307   | B  | 1984-12-11 | GR--81307 |
| DE2656387 | C2 | 1984-03-22 | DE2656387 |
| NO146384  | C  | 1982-09-22 | NO-146384 |
| NO146384  | B  | 1982-06-14 | NO-146384 |
| FR2335206 | B1 | 1982-02-19 | FR2335206 |
| AT365449  | B  | 1982-01-11 | AT-365449 |
| CH624846  | A5 | 1981-08-31 | CH-624846 |
| ATA923976 | A  | 1981-06-15 | AT7609239 |
| IL51096   | B  | 1980-09-16 | IL--51096 |
| CA1085295 | A  | 1980-09-09 | CA1085295 |
| GB1561100 | A  | 1980-02-13 | GB1561100 |
| NZ182871  | A  | 1979-10-25 | NZ-182871 |
| LU76378   | A1 | 1978-01-18 | LU--76378 |
| MC1117    | A1 | 1977-08-12 | MC---1117 |
| FR2335206 | A1 | 1977-07-15 | FR2335206 |
| DE2656387 | A1 | 1977-06-30 | DE2656387 |
| NL7613922 | A  | 1977-06-17 | NL7613922 |
| DK562276  | A  | 1977-06-16 | DK7605622 |
| FI763597  | A  | 1977-06-16 | FI7603597 |
| NO764242  | L  | 1977-06-16 | NO-764242 |
| IL51096   | A  | 1977-02-28 | IL--51096 |



### Abstract

(FR2335206)

Solid pharmaceutical unit dose forms which are particularly intended for oral intake and contain an edible therapeutically inactive carrier material in the form of a plurality of layers of paper-like material and/or polymeric substances, on which at least partially one or more medicaments are uniformly applied in finely divided form and contain essentially no pharmaceutical additives mixed with them, are described. The dose forms are sealed in such a way that no medicament is exposed and they can be produced by a high-speed pharmaceutical production technique. A particular advantage of the unit dose forms is that non-damaging on-line testing can be provided during the production thereof, e.g. in order to determine the amount and the uniformity of the medicament applied to the carrier material and thus to test the quality of the finished dose units by physical parameters.

(From GB1561100 A)

### Inventors

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WILLIAMS JOSEPH JAMES

ADAMS JIM MILLS

WHITE LAWRENCE SAMUEL

REIF ROBERT BRUCE

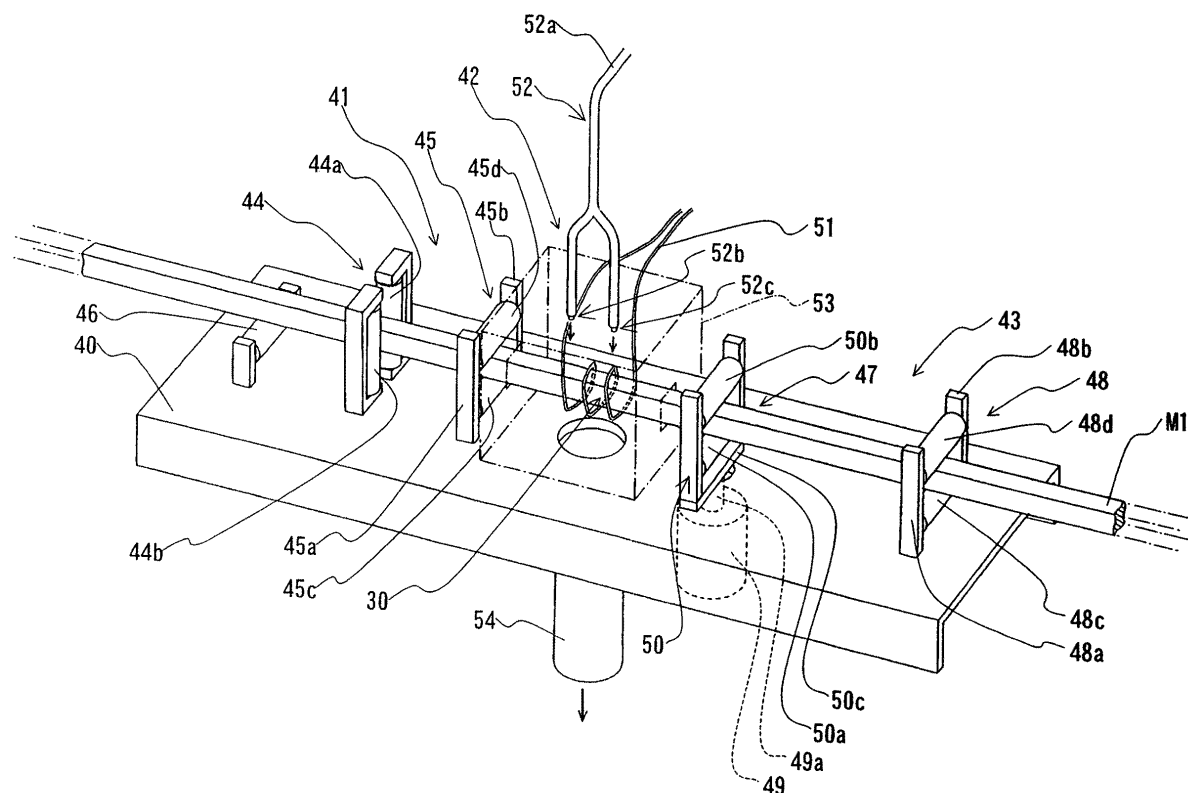
### Latest standardized assignees - inventors removed

HOFFMANN LA ROCHE

(EP1570924)

Method of working metal

## Images



## Publication numbers with kind code &amp; date

|                                |    |            |               |
|--------------------------------|----|------------|---------------|
| <a href="#">KR101014639</a>    | B1 | 2011-02-16 | KR101014639   |
| <a href="#">JP4564033</a>      | B2 | 2010-08-06 | JP4564033     |
| <a href="#">ES2332217</a>      | T3 | 2010-01-29 | ES2332217     |
| <a href="#">US7637136</a>      | B2 | 2009-12-29 | US7637136     |
| <a href="#">CN100566871</a>    | C  | 2009-12-09 | CN100566871C  |
| <a href="#">DE60328822</a>     | D1 | 2009-09-24 | DE60328822    |
| <a href="#">US7574888</a>      | B2 | 2009-08-18 | US7574888     |
| <a href="#">AT439197</a>       | T  | 2009-08-15 | ATE439197     |
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| <a href="#">US7559221</a>      | B2 | 2009-07-14 | US7559221     |
| <a href="#">TWI301778</a>      | B  | 2008-10-11 | TWI301778     |
| <a href="#">US20080110226</a>  | A1 | 2008-05-15 | US20080110226 |
| <a href="#">US20080110227</a>  | A1 | 2008-05-15 | US20080110227 |
| <a href="#">JP2007308806</a>   | A  | 2007-11-29 | JP2007308806  |
| <a href="#">JP4002273</a>      | B2 | 2007-08-24 | JP4002273     |
| <a href="#">US20060260378</a>  | A1 | 2006-11-23 | US20060260378 |
| <a href="#">EP1570924</a>      | A4 | 2006-04-19 | EP1570924     |
| <a href="#">CN1684778</a>      | A  | 2005-10-19 | CN1684778     |
| <a href="#">EP1570924</a>      | A1 | 2005-09-07 | EP1570924     |
| <a href="#">KR20050052519</a>  | A  | 2005-06-02 | KR20050052519 |
| <a href="#">TW200420366</a>    | A  | 2004-10-16 | TW200420366   |
| <a href="#">AU2003299073</a>   | A1 | 2004-04-19 | AU2003299073  |
| <a href="#">JPWO2004028718</a> | A1 | 2004-04-08 | JP2004028718W |
| <a href="#">WO2004/028718</a>  | A1 | 2004-04-08 | WO200428718   |



**Abstract**

(EP1570924)

A method of working metal in which the microstructure of metal body is rendered fine to thereby enhance the strength, ductility or homogeneity thereof; a metal body obtained by the metal working method; and a metal-containing ceramic body obtained by the metal working method. In this metal working method, the deformation resistance of metal body or metal-containing ceramic body (hereinafter referred to simply as "metal body") is lowered locally to thereby form low deformation resistance regions in the metal body, and shear deformation of the low deformation resistance regions is effected so as to fine the microstructure of metal body. In particular, the metal body is formed in unidirectionally drawn configuration so as to produce low deformation resistance regions crossing the metal body. Further, with respect to two non-low deformation resistance regions arranged to sandwich low deformation resistance region crossing the metal body, one non-low deformation resistance region is caused to have a relative position change to the other non-low deformation resistance region so as to effect shear deformation of the low deformation resistance region. The low deformation resistance regions can be moved along the direction of drawing of the metal body.

**Inventors**

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KANEKO KENJI

**Latest standardized assignees - inventors removed**

RINASCIMETALLI

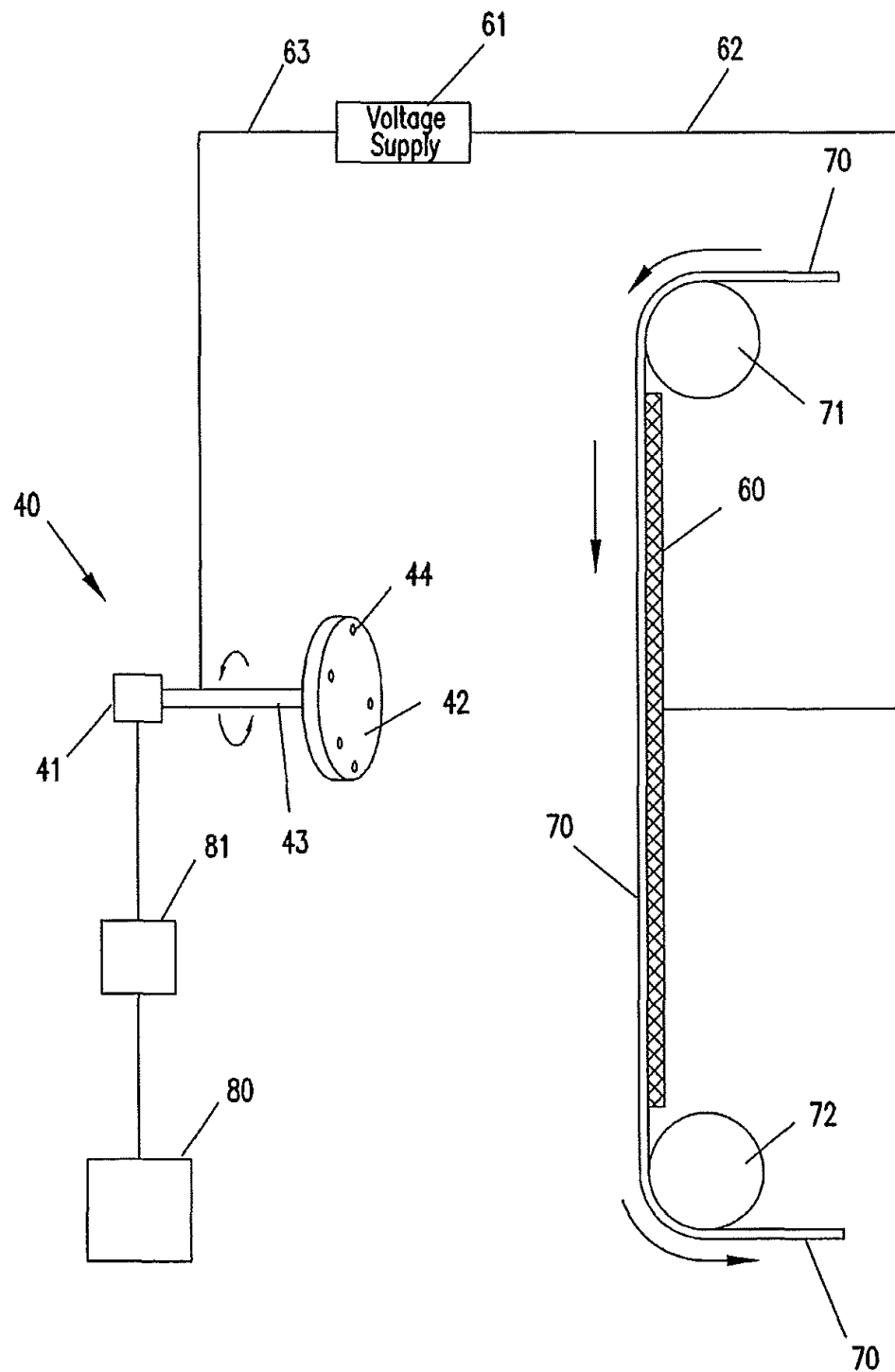
Family 15/24 - FAMPAT - ©Questel

**Title**

(EP1317316)

Bag house elements

**Images**



### Publication numbers with kind code & date

|               |    |            |               |
|---------------|----|------------|---------------|
| CN110124413   | A  | 2019-08-16 | CN110124413   |
| US10272374    | B2 | 2019-04-30 | US10272374    |
| ES2692838     | T3 | 2018-12-05 | ES2692838     |
| EP1795249     | B1 | 2018-07-25 | EP1795249     |
| US20170319993 | A1 | 2017-11-09 | US20170319993 |
| EP3238807     | A1 | 2017-11-01 | EP3238807     |
| ES2287151     | T5 | 2017-08-16 | ES2287151     |
| US9718012     | B2 | 2017-08-01 | US9718012     |
| DE60128573    | T3 | 2017-07-13 | DE60128573    |
| EP2730327     | B1 | 2017-07-12 | EP2730327     |
| DE60128714    | T3 | 2017-03-23 | DE60128714    |



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| IN279767      | B  | 2017-02-03 | IN-279767     |     |     |     |     |
| JP6068316     | B2 | 2017-01-06 | JP6068316     |    |    |    |    |
| EP1317317     | B2 | 2017-01-04 | EP1317317     |    |    |    |    |
| EP1355714     | B1 | 2016-11-23 | EP1355714     |    |    |    |    |
| EP1326698     | B2 | 2016-11-02 | EP1326698     |    |    |    |    |
| JP5901095     | B2 | 2016-03-18 | JP5901095     |    |    |    |    |
| EP2915574     | A1 | 2015-09-09 | EP2915574     |    |    |    |    |
| CN101387014   | B  | 2015-08-26 | CN101387014B  |    |    |    |    |
| EP1820553     | B1 | 2015-07-01 | EP1820553     |    |    |    |    |
| EP1925352     | B1 | 2015-07-01 | EP1925352     |    |    |    |    |
| JP2015110226  | A  | 2015-06-18 | JP2015110226  |    |    |    |    |
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| US20140196420 | A1 | 2014-07-17 | US20140196420 |    |    |    |    |
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| EP2730327     | A3 | 2014-06-04 | EP2730327     |    |    |    |    |
| EP2730327     | A2 | 2014-05-14 | EP2730327     |    |    |    |    |
| US8709118     | B2 | 2014-04-29 | US8709118     |    |    |    |    |
| JP2014073494  | A  | 2014-04-24 | JP2014073494  |    |    |    |    |
| CN1763274     | B  | 2014-01-15 | CN1763274B    |    |    |    |    |
| BR0113658     | B1 | 2013-11-26 | BR200113658   |   |   |   |   |
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| US20130199992 | A1 | 2013-08-08 | US20130199992 |  |  |  |  |
| US8366797     | B2 | 2013-02-05 | US8366797     |  |  |  |  |
| US20130001154 | A1 | 2013-01-03 | US20130001154 |  |  |  |  |
| EP1358272     | B1 | 2012-11-14 | EP1358272     |  |  |  |  |
| US20120204527 | A1 | 2012-08-16 | US20120204527 |  |  |  |  |
| JP5059277     | B2 | 2012-08-10 | JP5059277     |  |  |  |  |
| JP2012135765  | A  | 2012-07-19 | JP2012135765  |  |  |  |  |
| JP5021142     | B2 | 2012-06-22 | JP5021142     |  |  |  |  |
| JP5009479     | B2 | 2012-06-08 | JP5009479     |  |  |  |  |
| AT549071      | T  | 2012-03-15 | ATE549071     |  |  |                                                                                       |  |
| US8118901     | B2 | 2012-02-21 | US8118901     |  |  |  |  |
| US8029588     | B2 | 2011-10-04 | US8029588     |  |  |  |  |
| CA2419770     | C  | 2011-06-21 | CA2419770     |  |  |  |  |
| EP2308582     | A1 | 2011-04-13 | EP2308582     |  |  |  |  |
| US20110067369 | A1 | 2011-03-24 | US20110067369 |  |  |  |  |
| CN1458855     | B  | 2010-10-27 | CN1458855B    |  |  |  |  |
| IN242014      | B  | 2010-08-13 | IN-242014     |  |  |  |  |
| CA2419784     | C  | 2010-08-03 | CA2419784     |  |  |  |  |
| US20100178507 | A1 | 2010-07-15 | US20100178507 |  |  |  |  |
| BRPI0113658   | A2 | 2010-03-23 | BR200113658   |  |  |  |  |
| US20100064645 | A1 | 2010-03-18 | US20100064645 |  |  |  |  |
| IN238297      | B  | 2010-02-05 | IN-238297     |  |  |  |  |
| IN238337      | B  | 2010-02-05 | IN-238337     |  |  |  |  |
| CA2419788     | C  | 2010-01-05 | CA2419788     |  |  |  |  |
| IN237398      | B  | 2009-12-25 | IN-237398     |  |  |  |  |
| IN237404      | B  | 2009-12-25 | IN-237404     |  |  |  |  |

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| CA2419849         | C  | 2009-12-15 | CA2419849     |    |    |    |    |
| EP2116291         | A1 | 2009-11-11 | EP2116291     |    |    |    |    |
| US20090199524     | A1 | 2009-08-13 | US20090199524 |    |    |    |    |
| CN100506348       | C  | 2009-07-01 | CN100506348C  |    |    |    |    |
| CN101469462       | A  | 2009-07-01 | CN101469462   |    |    |    |    |
| CN100503717       | C  | 2009-06-24 | CN100503717C  |    |    |    |    |
| IN0280/DELNP/2003 | A  | 2009-05-15 | IN2003DN00280 |    |    |    |    |
| IN0276/DELNP/2003 | A  | 2009-03-27 | IN2003DN00276 |    |    |    |    |
| IN230822          | B  | 2009-03-27 | IN-230822     |    |    |    |    |
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| IN0278/DELNP/2003 | A  | 2009-03-20 | IN2003DN00278 |    |    |    |    |
| CN101387014       | A  | 2009-03-18 | CN101387014   |    |    |    |    |
| KR100887167       | B1 | 2009-03-10 | KR100887167   |    |    |    |    |
| IL154606          | B  | 2008-11-03 | IL-154606     |    |    |    |    |
| IN0275/DELNP/2003 | A  | 2008-08-08 | IN2003DN00275 |    |    |    |    |
| JP4167897         | B2 | 2008-08-08 | JP4167897     |    |    |    |    |
| EP1925352         | A1 | 2008-05-28 | EP1925352     |    |    |    |    |
| US20080110822     | A1 | 2008-05-15 | US20080110822 |    |    |    |    |
| CN101173383       | A  | 2008-05-07 | CN101173383   |    |    |    |    |
| KR100822230       | B1 | 2008-04-16 | KR100822230   |   |   |   |   |
| KR100820748       | B1 | 2008-04-10 | KR100820748   |  |  |  |  |
| IN0061/DELNP/2008 | A  | 2008-04-04 | IN2008DN00061 |  |  |  |  |
| KR100819355       | B1 | 2008-04-04 | KR100819355   |  |  |  |  |
| KR100819356       | B1 | 2008-04-04 | KR100819356   |  |  |  |  |
| KR100811569       | B1 | 2008-03-10 | KR100811569   |  |  |  |  |
| DE60128714        | T2 | 2008-02-07 | DE60128714    |  |  |  |  |
| CN101117736       | A  | 2008-02-06 | CN101117736   |  |  |  |  |
| IL154686          | B  | 2008-01-20 | IL-154686     |  |  |  |  |
| IN9873/DELNP/2007 | A  | 2008-01-18 | IN2007DN09873 |  |  |  |  |
| DE60128573        | T2 | 2008-01-17 | DE60128573    |  |  |  |  |
| US20080010959     | A1 | 2008-01-17 | US20080010959 |  |  |  |  |
| US7318852         | B2 | 2008-01-15 | US7318852     |  |  |  |  |
| US7318853         | B2 | 2008-01-15 | US7318853     |  |  |  |  |
| US7316723         | B2 | 2008-01-08 | US7316723     |  |  |  |  |
| ES2287151         | T3 | 2007-12-16 | ES2287151     |  |  |  |  |
| US20070283808     | A1 | 2007-12-13 | US20070283808 |  |  |  |  |
| US20070271883     | A1 | 2007-11-29 | US20070271883 |  |  |  |  |
| US20070271891     | A1 | 2007-11-29 | US20070271891 |  |  |  |  |
| EP1733776         | A3 | 2007-11-28 | EP1733776     |  |  |  |  |
| EP1820553         | A3 | 2007-11-21 | EP1820553     |  |  |  |  |
| US7270692         | B2 | 2007-09-18 | US7270692     |  |  |  |  |
| US7270693         | B2 | 2007-09-18 | US7270693     |  |  |  |  |
| IN4710/DELNP/2007 | A  | 2007-08-31 | IN2007DN04710 |  |  |  |  |
| EP1820553         | A2 | 2007-08-22 | EP1820553     |  |  |  |  |
| AU2001284771      | C1 | 2007-07-12 | AU2001284771  |  |  |  |  |
| DE60128714        | D1 | 2007-07-12 | DE60128714    |  |  |  |  |
| DE60128573        | D1 | 2007-07-05 | DE60128573    |  |  |  |  |
| RU2301105         | C2 | 2007-06-20 | RU2301105     |  |  |  |  |

|               |    |            |               |                                                                                     |                                                                                      |                                                                                       |                                                                                       |
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| AT362800      | T  | 2007-06-15 | ATE362800     |    |    |                                                                                       |    |
| AT363330      | T  | 2007-06-15 | ATE363330     |    |    |                                                                                       |    |
| EP1795249     | A1 | 2007-06-13 | EP1795249     |    |    |    |    |
| EP1795250     | A1 | 2007-06-13 | EP1795250     |    |    |    |    |
| RU2300543     | C2 | 2007-06-10 | RU2300543     |    |    |                                                                                       |    |
| IL154569      | B  | 2007-06-03 | IL-154569     |    |    |    |    |
| IL154570      | B  | 2007-06-03 | IL-154570     |    |    |    |    |
| CN1318121     | C  | 2007-05-30 | CN1318121C    |    |    |    |    |
| CN1318512     | C  | 2007-05-30 | CN1318512C    |    |    |    |    |
| EP1326698     | B1 | 2007-05-30 | EP1326698     |    |    |    |    |
| EP1317317     | B1 | 2007-05-23 | EP1317317     |    |    |    |    |
| IL154613      | B  | 2007-03-08 | IL-154613     |    |    |    |    |
| US7179317     | B2 | 2007-02-20 | US7179317     |    |    |    |    |
| US20070012007 | A1 | 2007-01-18 | US20070012007 |    |    |    |    |
| EP1733776     | A2 | 2006-12-20 | EP1733776     |    |    |    |    |
| AU2001284771  | B2 | 2006-12-07 | AU2001284771  |    |    |    |    |
| US7115150     | B2 | 2006-10-03 | US7115150     |    |    |    |    |
| US20060196359 | A1 | 2006-09-07 | US20060196359 |   |   |    |   |
| US7090712     | B2 | 2006-08-15 | US7090712     |  |  |    |  |
| US7090715     | B2 | 2006-08-15 | US7090715     |  |  |   |  |
| RU2281146     | C2 | 2006-08-10 | RU2281146     |  |  |                                                                                       |  |
| RU2280491     | C2 | 2006-07-27 | RU2280491     |  |  |                                                                                       |  |
| US7070640     | B2 | 2006-07-04 | US7070640     |  |  |  |  |
| RU2278722     | C2 | 2006-06-27 | RU2278722     |  |  |                                                                                       |  |
| US20060117730 | A1 | 2006-06-08 | US20060117730 |  |  |  |  |
| AU2001288333  | B2 | 2006-05-25 | AU2001288333  |  |  |  |  |
| DE60111554    | T2 | 2006-05-11 | DE60111554    |  |  |  |  |
| CN1765983     | A  | 2006-05-03 | CN1765983     |  |  |  |  |
| CN1763274     | A  | 2006-04-26 | CN1763274     |  |  |  |  |
| RU2274482     | C2 | 2006-04-20 | RU2274482     |  |  |                                                                                       |  |
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| AU2001284808  | B2 | 2005-12-22 | AU2001284808  |  |  |  |  |
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| CN1232335     | C  | 2005-12-21 | CN1232335C    |  |  |  |  |
| US6974490     | B2 | 2005-12-13 | US6974490     |  |  |  |  |
| US6955775     | B2 | 2005-10-18 | US6955775     |  |  |  |  |
| US20050183405 | A1 | 2005-08-25 | US20050183405 |  |  |  |  |
| US6924028     | B2 | 2005-08-02 | US6924028     |  |  |  |  |
| DE60111554    | D1 | 2005-07-21 | DE60111554    |  |  |  |  |
| ATE297798     | T  | 2005-07-15 | ATE297798     |  |  |                                                                                       |  |
| CN1210088     | C  | 2005-07-13 | CN1210088C    |  |  |  |  |
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| US6875256     | B2 | 2005-04-05 | US6875256     |  |  |  |  |
| US20040226443 | A1 | 2004-11-18 | US20040226443 |  |  |  |  |
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| <a href="#">US20040123572</a>     | A1 | 2004-07-01 | US20040123572  |    |    |    |    |
| <a href="#">US6746517</a>         | B2 | 2004-06-08 | US6746517      |    |    |    |    |
| <a href="#">US6743273</a>         | B2 | 2004-06-01 | US6743273      |    |    |    |    |
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| <a href="#">MXPA03001929</a>      | A  | 2004-05-24 | MX2003PA001929 |    |    |                                                                                       |    |
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| <a href="#">MXPA03001881</a>      | A  | 2004-04-20 | MX2003PA001881 |    |    |                                                                                       |    |
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| US20030037675 | A1 | 2003-02-27 | US20030037675 |    |    |    |    |
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| US20020092423 | A1 | 2002-07-18 | US20020092423 |  |  |  |  |
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| US20020059868 | A1 | 2002-05-23 | US20020059868 |  |  |  |  |
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| AU8326301     | A  | 2002-03-22 | AU200183263   |  |  |  |  |
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| AU8480801     | A  | 2002-03-22 | AU200184808   |  |  |  |  |
| AU8483301     | A  | 2002-03-22 | AU200184833   |  |  |  |  |
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| AU8833301     | A  | 2002-03-22 | AU200188333   |  |  |  |  |
| AU9052701     | A  | 2002-03-22 | AU200190527   |  |  |  |  |
| CA2419770     | A1 | 2002-03-14 | CA2419770     |  |  |  |  |
| CA2419779     | A1 | 2002-03-14 | CA2419779     |  |  |  |  |
| CA2419784     | A1 | 2002-03-14 | CA2419784     |  |  |  |  |
| CA2419788     | A1 | 2002-03-14 | CA2419788     |  |  |  |  |
| CA2419802     | A1 | 2002-03-14 | CA2419802     |  |  |  |  |
| CA2419849     | A1 | 2002-03-14 | CA2419849     |  |  |  |  |
| WO02/20129    | A2 | 2002-03-14 | WO200220129   |  |  |  |  |
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| WO02/20135    | A2 | 2002-03-14 | WO200220135   |  |  |  |  |
| WO02/20668    | A2 | 2002-03-14 | WO200220668   |  |  |  |  |

## Abstract

(EP1317316)

The filter structures commonly known as a bag house or a filter bag or an air filter with a bag construction can be made by

preparing the bag assembly, either in a tubular or a bi-fold construction by placing a layer of fine fiber on the upstream surface of the filter media structure. The filter assembly includes a filter cabinet with an interior component. The filter component is suspended within the filter cabinet interior. The filter component includes a frame or support for the filter media. The frame or support holds the filter bags such that the filter bags are suspended from the frame in the cabinet interior. The intake air enters the cabinet, passes through the filter assembly and exits the cabinet. The air must pass first into the fine fiber layer, the filter media and then the exterior of the cabinet.

**Inventors**

BUETTNER JOHN M

LEBLANC JAMES A

GOGINS MARK A

WEIK THOMAS M

**Latest standardized assignees - inventors removed**

DONALDSON

Family 16/24 - FAMPAT - ©Questel

**Title**

(EP2403655)

Mixed solvent process for preparing structured organic films

**Images**

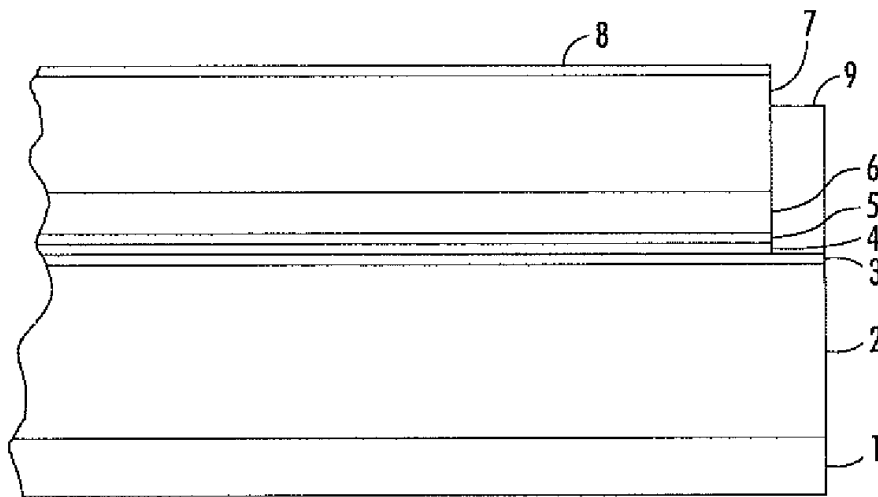


FIG. 1

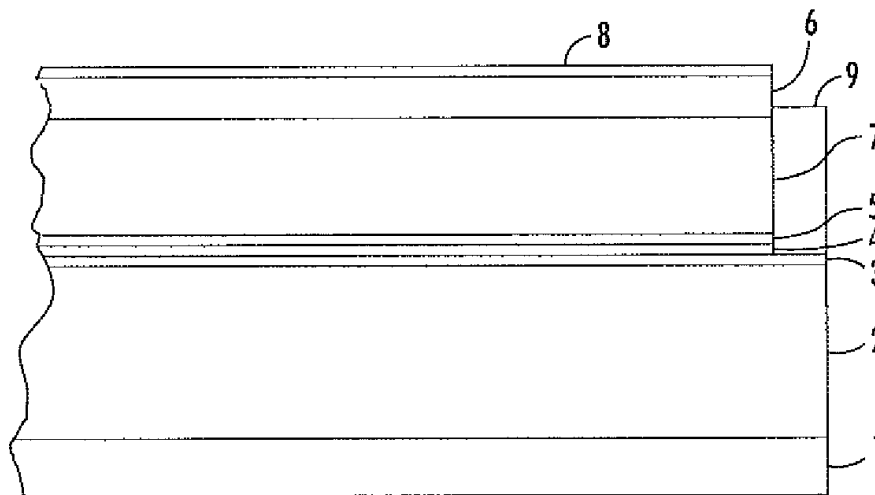


**FIG. 2**

### Publication numbers with kind code & date

|             |    |            |              |
|-------------|----|------------|--------------|
| CN102341186 | B  | 2017-09-29 | CN102341186B |
| CN102341187 | B  | 2017-09-29 | CN102341187B |
| EP2403657   | B1 | 2016-12-28 | EP2403657    |
| EP2408572   | B1 | 2016-12-21 | EP2408572    |
| EP2403656   | B1 | 2016-12-07 | EP2403656    |
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|---------------|----|------------|---------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| CN102413970   | B  | 2016-08-10 | CN102413970B  |                                                                                     |                                                                                      |                                                                                       |                                                                                       |
| CN102413949   | B  | 2016-02-17 | CN102413949B  |    |    |    |    |
| KR101586635   | B1 | 2016-01-19 | KR101586635   |    |    |    |    |
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| KR101563907   | B1 | 2015-10-28 | KR101563907   |    |    |    |    |
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| KR101563916   | B1 | 2015-10-28 | KR101563916   |    |    |    |    |
| US9097995     | B2 | 2015-08-04 | US9097995     |    |    |    |    |
| CA2753945     | C  | 2015-06-16 | CA2753945     |    |    |    |    |
| CA2753904     | C  | 2015-02-24 | CA2753904     |    |    |    |    |
| CA2753891     | C  | 2015-01-13 | CA2753891     |    |    |    |    |
| JP5675659     | B2 | 2015-01-09 | JP5675659     |    |    |    |    |
| JP5670358     | B2 | 2014-12-26 | JP5670358     |    |    |    |    |
| CA2753863     | C  | 2014-12-16 | CA2753863     |    |    |    |    |
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| US20100228025 | A1 | 2010-09-09 | US20100228025 |  |  |  |  |

**Abstract**

(EP2403655)

A mixed solvent process for preparing structured organic film comprising a plurality of segments and a plurality of linkers arranged as a covalent organic framework, wherein the structured organic film may be a multi-segment thick structured organic film.

**Inventors**

COTE ADRIEN PIERRE

HEUFT MATTHEW A

SKINNER DAVID M

COWDERY-CORVAN JANE ROBINSON

**Latest standardized assignees - inventors removed**

XEROX

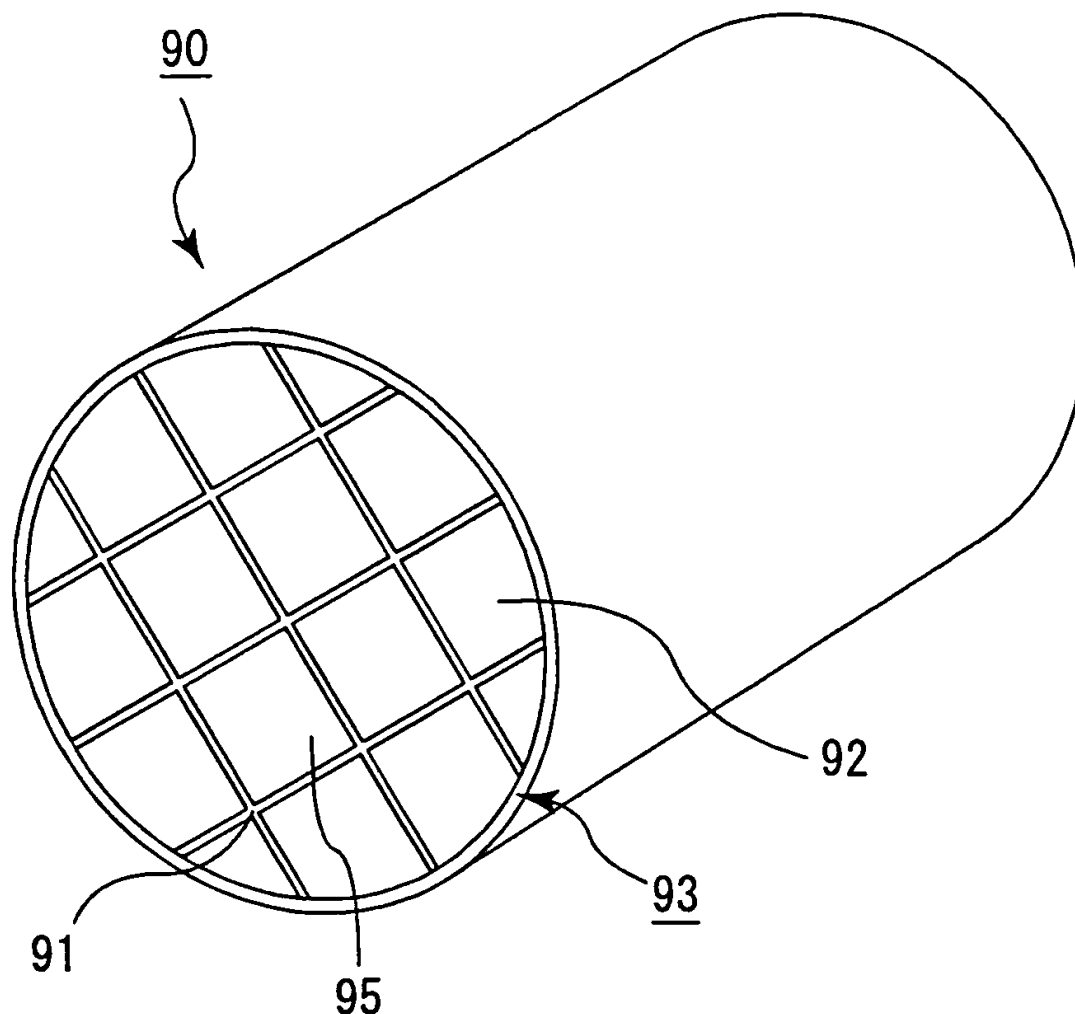
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**Title**

(EP1623750)

Honeycomb structure and exhaust emission control device

**Images**



#### Publication numbers with kind code & date

|                                |    |            |               |
|--------------------------------|----|------------|---------------|
| <a href="#">EP1623750</a>      | B1 | 2017-12-13 | EP1623750     |
| <a href="#">JP4666390</a>      | B2 | 2011-01-21 | JP4666390     |
| <a href="#">CN100419230</a>    | C  | 2008-09-17 | CN100419230C  |
| <a href="#">US7348049</a>      | B2 | 2008-03-25 | US7348049     |
| <a href="#">KR100637298</a>    | B1 | 2006-10-24 | KR100637298   |
| <a href="#">KR20060063772</a>  | A  | 2006-06-12 | KR20060063772 |
| <a href="#">EP1623750</a>      | A4 | 2006-03-22 | EP1623750     |
| <a href="#">CN1735743</a>      | A  | 2006-02-15 | CN1735743     |
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| <a href="#">WO2005/099865</a>  | A1 | 2005-10-27 | WO2005099865  |
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#### Abstract

(EP1623750)

The present invention aims to provide a honeycomb structural body which is high in mechanical strength, has no cracks even when a thermal stress is generated, is less susceptible to generation of cracks or damage and is excellent in durability even in the case where a high **pressure** is applied from an outer peripheral face thereof, and is excellent in push-out strength. The honeycomb structural body of the present invention is a honeycomb structural body which has irregularities formed on an outer peripheral face thereof and that of a ceramic block, wherein when a least square curve is determined by a least square method on the basis of points constituting the contour of a cross-section perpendicular to the length direction of the honeycomb structural body, a center-of-gravity thereof is defined as c1, a distance between a

minimum concentric circumscribed curve, having c1 as the center-of-gravity, of the least square curve and the center-of-gravity c1 is defined as D1, a distance between a maximum concentric inscribed curve, having c1 as the center-of-gravity, of the least square curve and the center-of-gravity c1 is defined as D2, and (D1 - D2) is defined as M1, the following inequality is satisfied:  $0.3 \text{ mm} \leq M1$ , and when a least square curve is determined by a least square method on the basis of points constituting the contour of a cross-section perpendicular to the length direction of the ceramic block, a center-of-gravity thereof is defined as c2, a distance between a minimum concentric circumscribed curve, having c2 as the center-of-gravity, of the least square curve and the center-of-gravity c2 is defined as D3, a distance between a maximum concentric inscribed curve, having c2 as the center-of-gravity, of the least square curve and the center-of-gravity c2 is defined as D4, and (D3 - D4) is defined as M2, the following inequality is satisfied:  $0.5 \text{ mm} \leq M2 \leq 7.0 \text{ mm}$ .

## Inventors

YOSHIDA YUTAKA

### Latest standardized assignees - inventors removed

IBIDEN

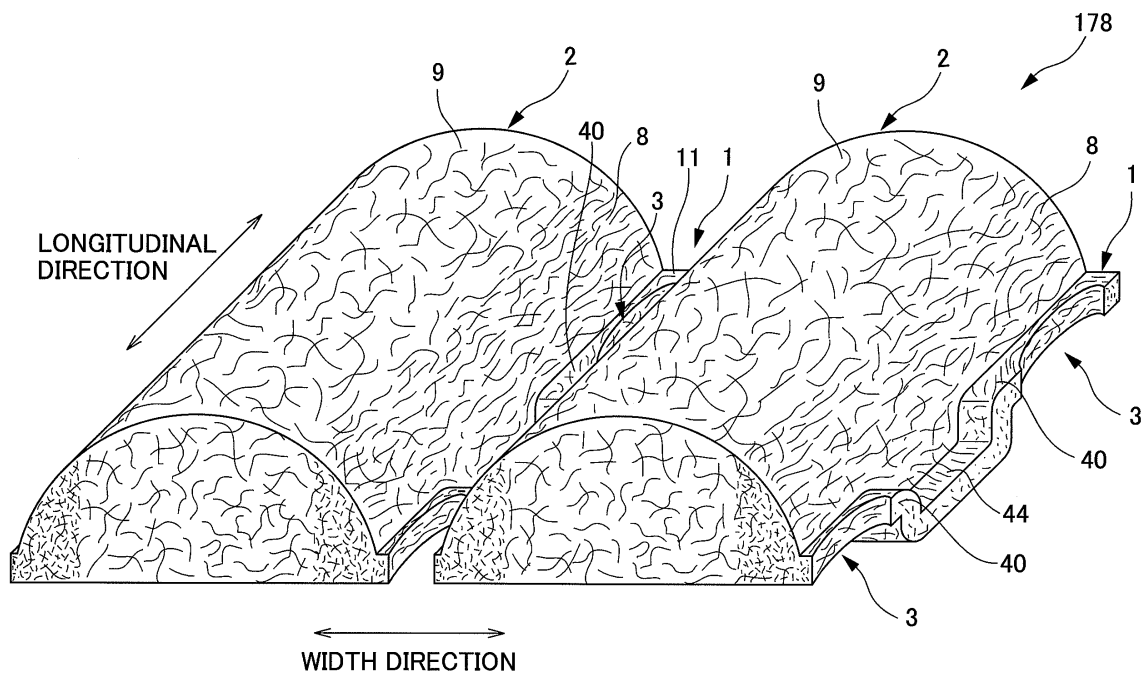
Family 18/24 - FAMPAT - ©Questel

## Title

(EP2034066)

Nonwoven fabric

## Images



### Publication numbers with kind code & date

|          |   |            |            |
|----------|---|------------|------------|
| TH64740  | B | 2018-09-07 | TH--64740B |
| TH64741  | B | 2018-09-07 | TH--64741B |
| TH64464  | B | 2018-08-27 | TH--64464B |
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| IN290796 | B | 2017-12-22 | IN-290796  |
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| IN285032 | B | 2017-07-14 | IN-285032  |
| IN284564 | B | 2017-06-30 | IN-284564  |
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| KR101477303 | B1 | 2014-12-29 | KR101477303  |    |    |    |    |
| CN102337635 | B  | 2014-12-10 | CN102337635B |    |    |    |    |
| EP2034070   | B1 | 2014-12-03 | EP2034070    |    |    |    |    |
| EP2039816   | B1 | 2014-11-12 | EP2039816    |    |    |    |    |
| EP2034068   | B1 | 2014-09-10 | EP2034068    |    |    |    |    |
| EP2599907   | B1 | 2014-09-10 | EP2599907    |    |    |    |    |
| KR101423790 | B1 | 2014-07-25 | KR101423790  |    |    |    |    |
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| KR101395379 | B1 | 2014-05-14 | KR101395379  |    |    |    |    |
| MY151019    | A  | 2014-03-31 | MY-151019    |    |    |                                                                                       |    |
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| JP5328088   | B2 | 2013-08-02 | JP5328088    |  |  |  |  |
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| EP2599907   | A1 | 2013-06-05 | EP2599907    |  |  |  |  |
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| US8304600   | B2 | 2012-11-06 | US8304600    |  |  |  |  |
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| CN101443499       | B  | 2011-05-25 | CN101443499B  |    |    |    |    |
| CN101443500       | B  | 2011-05-25 | CN101443500B  |    |    |    |    |
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| US20070298213     | A1 | 2007-12-27 | US20070298213 |  |  |  |  |
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| <a href="#">US20070299416</a> | A1 | 2007-12-27 | US20070299416 |  |  |  |  |
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**Abstract**

(EP2034066)

A nonwoven fabric provided with unevenness and openings, regulated so that without extremely increasing of fiber density at protrudent portions, depressed portions, etc., only part of the periphery of each open area is densified. One side edge portion (14,16) of each open area (3a,3b) is formed by shifting of fiber web (100) toward the low position of wire (302) with a gradient extending in the direction of width (WD). Nearly none of fiber web (100) is shifted to the side edge portion opposite to the one side edge portion (14,16) of open area (3a,3b), namely, other side edge portion (15,17).

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Family 19/24 - FAMPAT - ©Questel

**Title**

(EP2741625)

Smoking article and method of manufacturing a smoking article

**Images**



## Inventors

KALJURA KARL

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PATON DAVID

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PARK KIE SEON

DUNLOP STUART

MEREDITH PATRICK

PENROSE GRAHAM

### Latest standardized assignees - inventors removed

BRITISH AMERICAN TOBACCO

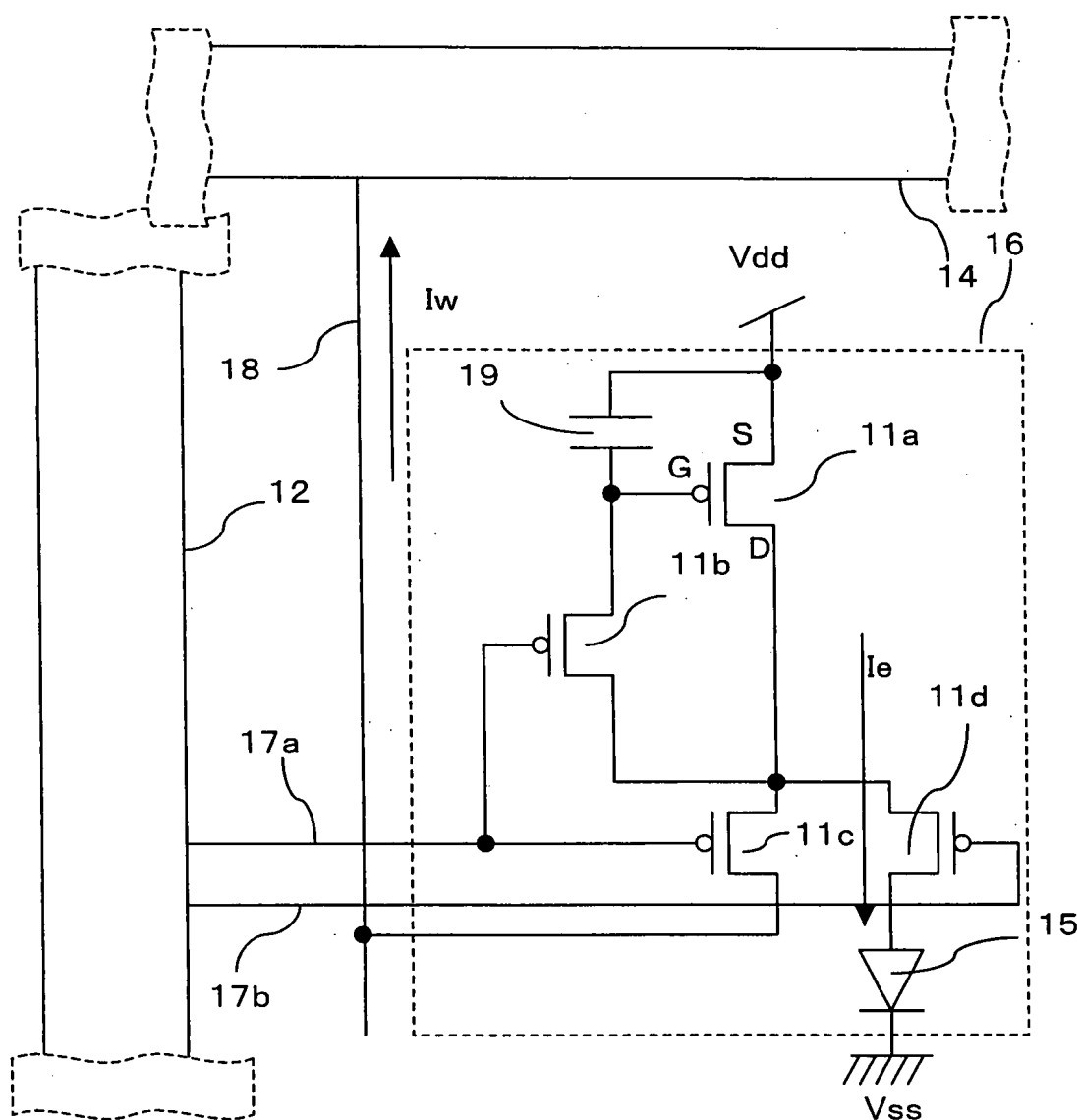
Family 20/24 - FAMPAT - ©Questel

## Title

(EP1624435)

## El display and its driving method

## Images



**Publication numbers with kind code & date**

|                                |    |            |               |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|--------------------------------|----|------------|---------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
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| <a href="#">JP2009110008</a>   | A  | 2009-05-21 | JP2009110008  |  |  |  |  |
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| <a href="#">KR20070024733</a>  | A  | 2007-03-02 | KR20070024733 |  |  |  |  |
| <a href="#">CN1820295</a>      | A  | 2006-08-16 | CN1820295     |  |  |  |  |
| <a href="#">TWI258113</a>      | B  | 2006-07-11 | TWI258113     |  |  |  |  |
| <a href="#">KR20060018831</a>  | A  | 2006-03-02 | KR20060018831 |  |  |  |  |
| <a href="#">EP1624435</a>      | A1 | 2006-02-08 | EP1624435     |  |  |  |  |
| <a href="#">JP2005266735</a>   | A  | 2005-09-29 | JP2005266735  |  |  |  |  |
| <a href="#">JP2005266736</a>   | A  | 2005-09-29 | JP2005266736  |  |  |  |  |
| <a href="#">JPWO2004100118</a> | A1 | 2004-11-18 | JP2004100118W |  |  |  |  |
| <a href="#">WO2004/100118</a>  | A1 | 2004-11-18 | WO2004100118  |  |  |  |  |
| <a href="#">TW200424995</a>    | A  | 2004-11-16 | TW200424995   |  |  |  |  |

**Abstract**

(EP1624435)

The invention relates to a method for terminal-assisted interference control in a mobile communication system employing multi-carrier techniques such as OFDM, the mobile communication system comprising a network (N) with a plurality of base stations (B1 to B3) controlled by a central entity (CE), and the base stations having means for communication with user terminals (T1 to T3) located inside their cell service area (C1 to C3). The central entity (CE) schedules time-frequency groups available, for data communication purposes between the terminals and the base station (B1 to B3), for the base stations under its control (B1 to B3) and for the terminals (T1 to T3) involved in the scheduling process. Scheduling decisions are made for each time interval (TI1 to TI<sub>n</sub>).

**Inventors**

TAKAHARA HIROSHI

**Latest standardized assignees - inventors removed**

TOSHIBA MATSUSHITA DISPLAY TECHNOLOGY

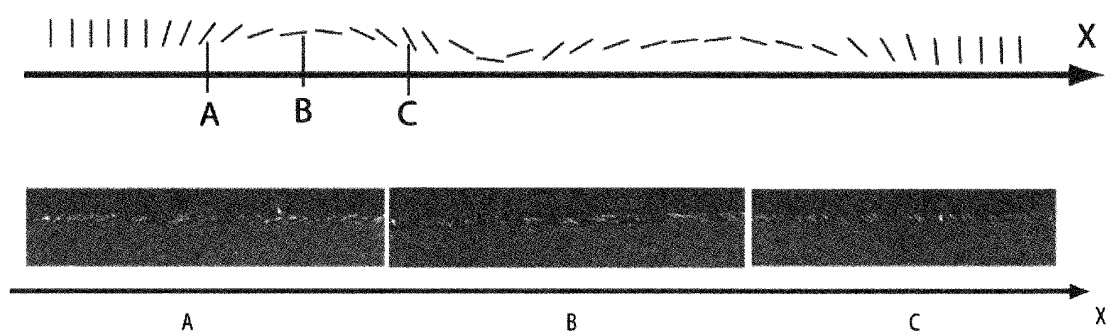
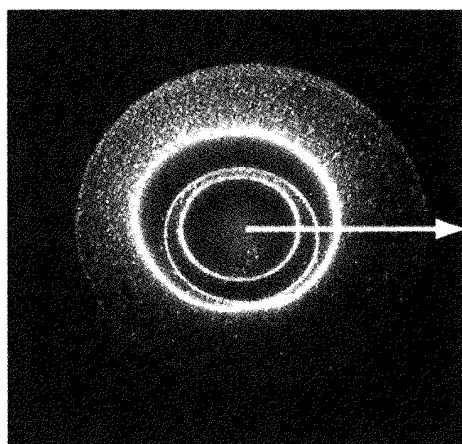
Family 21/24 - FAMPAT - ©Questel

**Title**

(EP2943290)

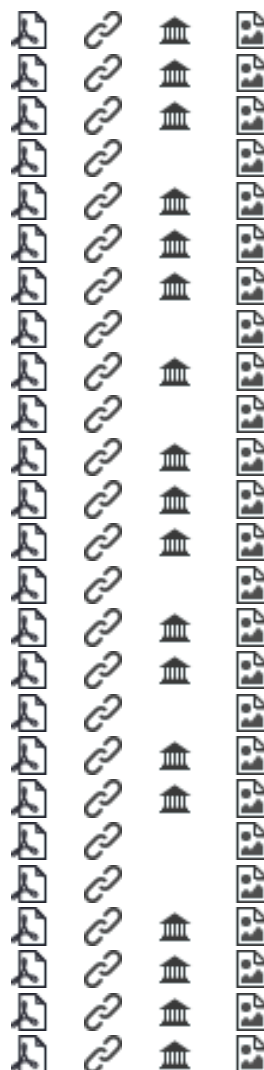
Optical effect layers showing a viewing angle dependent optical effect, processes and devices for their production, items carrying an optical effect layer, and uses thereof

**Images**



#### Publication numbers with kind code & date

|                   |    |            |                |
|-------------------|----|------------|----------------|
| JP6535926         | B2 | 2019-07-03 | JP6535926      |
| JP2018141960      | A  | 2018-09-13 | JP2018141960   |
| CN104918715       | B  | 2018-06-05 | CN104918715B   |
| RU2655355         | C2 | 2018-05-25 | RU2655355      |
| US20180093518     | A1 | 2018-04-05 | US20180093518  |
| US9849713         | B2 | 2017-12-26 | US9849713      |
| AU2013372261      | B2 | 2017-08-24 | AU2013372261   |
| TH165359          | A  | 2017-07-27 | TH-165359      |
| BR112015011390    | A2 | 2017-07-11 | BR112015011390 |
| RU2015133188      | A  | 2017-02-14 | RU2015133188   |
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| IN3786/DELNP/2015 | A  | 2016-06-10 | IN2015DN03786  |
| JP2016511703      | A  | 2016-04-21 | JP2016511703   |
| HK1210092         | A1 | 2016-04-15 | HK1210092      |
| US20150352883     | A1 | 2015-12-10 | US20150352883  |
| EP2943290         | A1 | 2015-11-18 | EP2943290      |
| MX2015008872      | A  | 2015-10-30 | MX2015008872   |
| CN104918715       | A  | 2015-09-16 | CN104918715    |
| KR20150102980     | A  | 2015-09-09 | KR20150102980  |
| PH12015501286     | A1 | 2015-08-24 | PH12015501286  |
| AR094363          | A1 | 2015-07-29 | AR--94363      |
| AU2013372261      | A1 | 2015-05-21 | AU2013372261   |
| TW201431712       | A  | 2014-08-16 | TW201431712    |
| CA2890164         | A1 | 2014-07-17 | CA2890164      |
| WO2014/108303     | A1 | 2014-07-17 | WO2014108303   |



(EP2943290)

The invention relates to the field of the protection of security documents such as for example banknotes and identity documents against counterfeit and illegal reproduction. In particular, the invention relates to optical effect layers (OEL) showing a viewing-angle dependent optical effect, devices and processes for producing said OEL and items carrying said OEL, as well as uses of said optical effect layers as an anti-counterfeit means on documents. The OEL comprises a plurality of non-spherical magnetic or magnetizable particles, which are dispersed in a coating composition comprising a binder material, the OEL comprising two or more loop-shaped areas, being nested around a common central area that is surrounded by the innermost loop-shaped area, wherein, in each of the loop-shaped areas, at least a part of the plurality of non-spherical magnetic or magnetizable particles are oriented such that, in a cross-section perpendicular to the OEL layer and extending from the centre of the central area to the outer boundary of the outermost loop-shaped area, the longest axis of the particles in each of the cross-sectional areas of the looped-shaped areas follow a tangent of either a negatively curved or a positively curved part of hypothetical ellipses or circles.

#### **Inventors**

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SICPA

Family 22/24 - FAMPAT - ©Questel

#### **Title**

(EP1446860)

Flywheel energy storage systems

#### **Images**



[WO03/23942](#)

A1 2003-03-20 WO200323942

**Abstract**

(EP1446860)

A flywheel energy storage system (10) includes a vacuum enclosure (18) having a flywheel (12), motor/generator (14), and a shaft (16) enclosed within. The flywheel and motor/generator combination are designed to minimize bearing loads and thus increase system life, reliability and safety.

**Inventors**

SIBLEY LEWIS B

**Latest standardized assignees - inventors removed**

KINETECH POWER

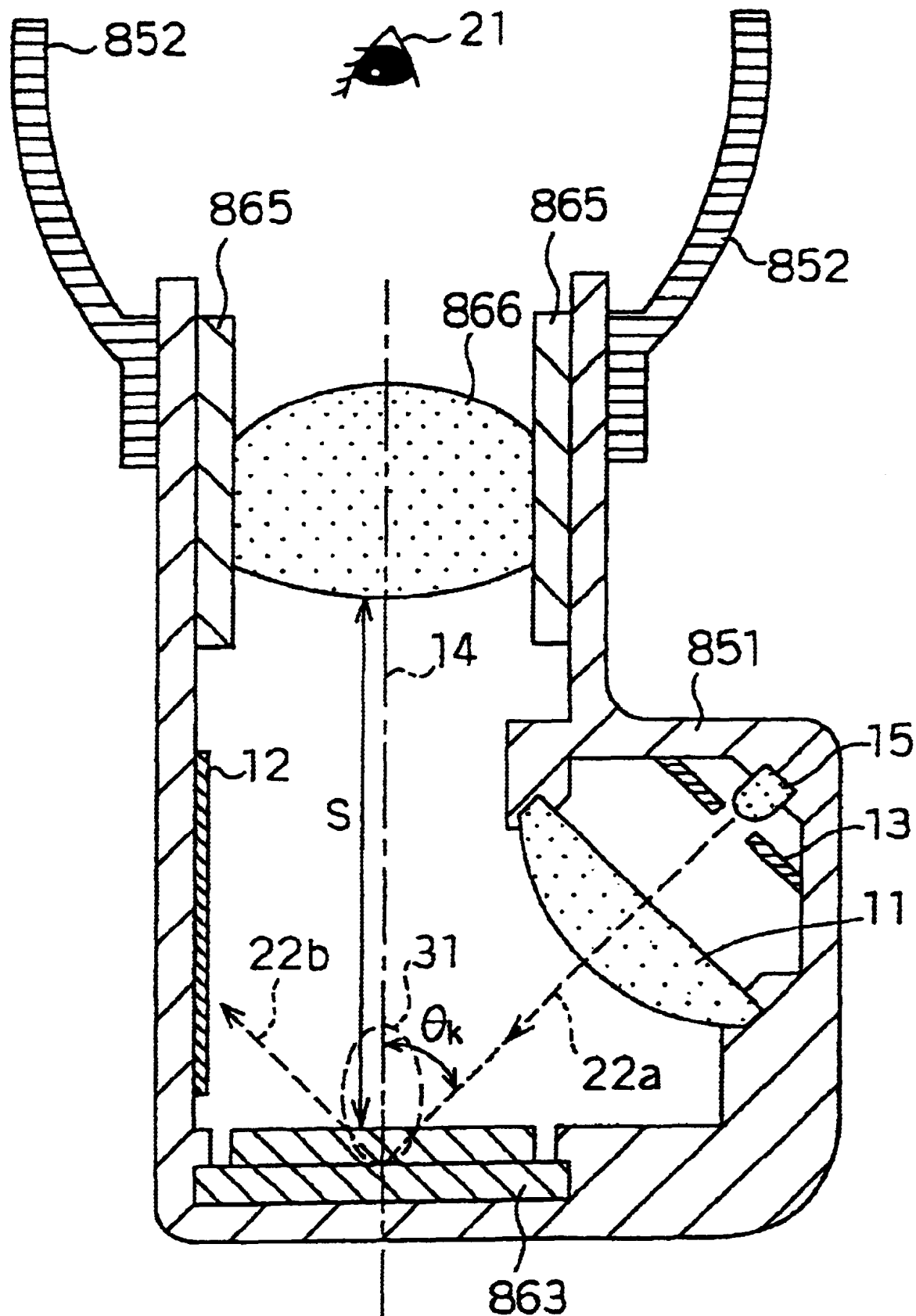
Family 23/24 - FAMPAT - ©Questel

**Title**

(US6992718)

Illuminating apparatus, display panel, view finder, video display apparatus, and video camera mounting the elements

**Images**



Publication numbers with kind code & date

|                              |    |            |              |
|------------------------------|----|------------|--------------|
| <a href="#">JP4386989</a>    | B2 | 2009-10-09 | JP4386989    |
| <a href="#">US6992718</a>    | B1 | 2006-01-31 | US6992718    |
| <a href="#">JP2000321993</a> | A  | 2000-11-24 | JP2000321993 |
| <a href="#">JP2000194067</a> | A  | 2000-07-14 | JP2000194067 |
| <a href="#">JP2000078444</a> | A  | 2000-03-14 | JP2000078444 |



Abstract



|               |    |            |               |                                                                                   |                                                                                   |                                                                                     |                                                                                     |
|---------------|----|------------|---------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| US20010010153 | A1 | 2001-08-02 | US20010010153 |                                                                                   |                                                                                   |                                                                                     |                                                                                     |
| KR20010067095 | A  | 2001-07-12 | KR20010067095 |  |  |  |  |
| CN1302945     | A  | 2001-07-11 | CN1302945     |  |  |  |  |
| JP2001173426  | A  | 2001-06-26 | JP2001173426  |  |  |  |  |
| EP1108460     | A1 | 2001-06-20 | EP1108460     |  |  |  |  |
| NO20006414    | L  | 2001-06-18 | NO20006414    |  |  |  |  |
| NO20006414    | D0 | 2000-12-15 | NO20006414    |  |  |                                                                                     |  |

**Abstract**

(EP1108460)

A device to eliminate particulates contained in exhaust gas ejected from motors, such as diesel engines for ships, surface transportation vehicles and overland fixed sources, and a process to eliminate particulates contained in the exhaust gas are provided. Fig. 2 shows as an example of the present invention a device for eliminating particulates contained in exhaust gas (10) ejected from diesel engines constituted by a discoid-shaped filter (11) used as a capturing means to capture the particulates and sprayers (13) having a plurality of nozzles (13a), such as spray type and shower type, used as a catalyst attaching means to attach an alkaline metal catalyst solution (12) onto the surface of the captured particulates in the discoid-shaped filter (11). The device attaches the catalyst to the surface of the captured particulates, and then burns and decomposes the unburned particulates portion in the exhaust gas.

**Inventors**

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