



PatBase Export

Created by: SIC2@patbase.com

Created on: 19 May 2022

Search: FT=(drum* and (band or strip) and wheel and tampon*) and IC=(A61F13/20)

Records: 20 (1-20 of 20)

Export type: Family Export

1. Family 403903 (FR2052028 A5)

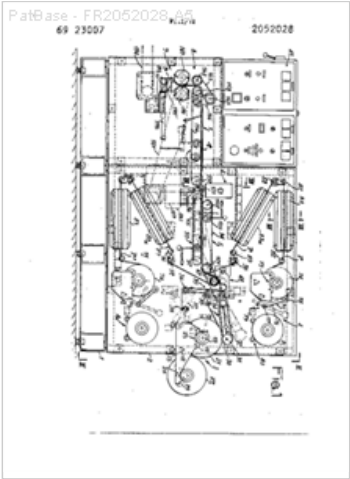
[View in PatBase](#)

Abstract

[MT] [Source: Claim 1] 1 Tachine - for the manufacture of a product packaged containing a continuous flexible support impregnated with fluid a substance characterized in that it comprises a framework supporting two posts of devidage of two protective films engaged, beyond two chambers of sterilization, between the endless belts of the post of assembling to be placed on either side of a band of flexible material derived from a position of coating substance fluid disposed between the Assembly and the position of devidage~position of said flexible band, the complex, formed by the three bands superimposed on top from the position of assembly, crossed a cutting station to intermittent operation dividing the complex in independent sections supported by a conveyor transfer leading Successively to a position of preformage said sections fold and disposed above a store momentane storage.

International Class: A61F13/20; B65B11/50; A61L15/00; B65B11/00; B65B55/00

Cooperative Patent Class: A61F13/2082; B65B11/50



Family Information

	Patent Number	Publication Date	Application Number	Application Date
	DE2033397 A1	19710114	DE19702033397	19700706
	FR2052028 A5	19710409	FR19690023007	19690707

Priority Numbers: FR19690023007 [19690707]

Probable Patent Assignee: INST RECH SCIENT

Assignees: INST RECH SCIENT

Non Std Assignees: INST RECHER SCIENTIFIQUE

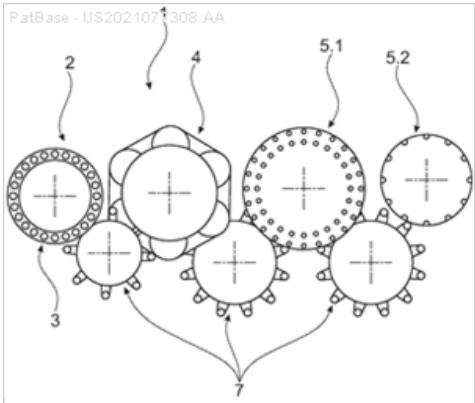
2. Family 76073814 (US2021077308 AA)

[View in PatBase](#)

Title
[EN] DEVICE FOR SHAPING TAMPONS

Abstract
[EN] The present invention relates to an apparatus for forming tampons, which comprises a plurality of processing drums **2, 4, 5.1, 5.2** for forming a tampon from band-form material. It also comprises at least one transfer station **7** for continuously transferring a preform from a first processing drum **2, 4, 5.1, 5.2** to a second processing drum **4, 5.1, 5.2**. The invention also relates to a method for forming a tampon from band-form material, wherein transfer from a first processing drum to a second processing drum takes place by means of a continuously rotating transfer wheel.

International Class: A61F13/20
Cooperative Patent Class: A61F13/2082; A61F13/2085; A61F13/2088; A61F13/2094



Family Information

	Patent Number	Publication Date	Application Number	Application Date
	AR115315 AA	20201223	AR2019P100831	20190329
	AU2019244571 AA	20201022	AU20190244571	20190320
	AU2019244571 BB	20220210	AU20190244571	20190320
	BR112020019567 A2	20210105	BR20201119567	20190320
	CA3094587 AA	20200921	CA20193094587	20190320
	CH714846 A1	20190930	CH20180000426	20180329
	CH714846 A9	20200115	CH20180000426	20180329
	CN112055577 A	20201208	CN201980029033	20190320
	CO20200012566 A2	20201030	CO20200012566	20201008
	EP3773389 A1	20210217	EP20190721741	20190320
	IL277598 AA	20210301	IL20190277598	20190320
	JP2021519628 T2	20210812	JP20200552293T	20190320
	KR20200138322 A	20201209	KR20207031011	20190320
	MX2020009925 A1	20201124	MX20200009925	20190320
	RU2020135334 A	20220429	RU20200135334	20190320
	TW201941752 A	20191101	TW20190111318	20190329
	US2021077308 AA	20210318	US20200042318	20190320
	WO19186325 A1	20191003	WO2019IB52261	20190320

Priority Numbers: CH20180000426 [20180329]; WO2019IB52261 [20190320]

Probable Patent Assignee: RUGGLI PROJECTS AG

Assignees: RUGGLI PROJECTS AG

Non Std Assignees: SCHULER SAMUEL; AUER MARCO

Inventors: AUER MARCO; SCHULER SAMUEL; SAMUEL SCHULER; MARCO AUER

Agent(s): FB RICE PTY LTD; RICHES MCKENZIE AND HERBERT LLP; IPRIME RENTSCH KAELIN AG; REINHOLD COHN AND PARTNERS; ERIC AARON ALAVEZ MEJIA

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

3. Family 23604721 (US2763899 A)

[View in PatBase](#)

Title
[EN] MACHINE FOR INSERTING A DRAWING THREAD OR DRAWING RIBBON IN TAMPONS OR THE LIKE

Abstract
[EN] (Claim 1) 1. A machine for inserting, a drawing thread or ribb,?Tk iA. a. toLmp-o..4 or tl4e like,,, comprising a, wi _piiidlg., , a slot provided at one end of said spindle, means for guiding and positioning a wadding web, means for moving said spindle along its axis until the web is received in the slot of said spindle, two slides,,means for positioning a thread substantially at right angles to said web and between the wieb and _ thi_ , initial _ position of said slides,. means for dis_acing _said. slides from said initial position along a path substantially parallel to the axis of said spindle uniiil -the thread is vositioned o4 said spindle, means for rot4tin, said. spindle ablo_t its axi's to .yind a _ wadding roll of- th6 web, and to wind the free ends of the th e d about said ,r a, .. -. sp_Roje, and means for pressing the ends of the thread wound about said spindl6 against a face of said roll and for simultaneousiv stripping.off said roU and thread from said spindle.

International Class: A61F13/20
Cooperative Patent Class: A61F13/2051; A61F13/2085
US Class: 19/149; 28/120

Family Information

	Patent Number	Publication Date	Application Number	Application Date
	DE915382 A	19540802	DE1950N002848	19501003
	FR1042290 A	19531030		19510919
	US2763899 A	19560925	US19510248332	19510926

Priority Numbers: US19510248332 [19510926]
Probable Patent Assignee: CARL HAHN DR ING
Assignees: CARL HAHN DR ING; MITTAG DR HEINZ; FRIEDRICH NIEPMANN; OTTO NIEPMANN DIPL ING; CARL HAHN; OTTO NIEPMANN; HEINZ MITTAG
Non Std Assignees: DIPL ING OTTO NIEPMANN; DR HEINZ MITTAG; DR ING CARL HAHN
Inventors: HAHN DR ING CARL; MITTAG DR HEINZ; NIEPMANN DIPL ING OTTO; NIEPMANN FRIEDRICH; NIEPMANN OTTO; HAHN CARL; MITTAG HEINZ; OTTO NIEPMANN; CARL HAHN; HEINZ MITTAG; FRIEDRICH NIEPMANN



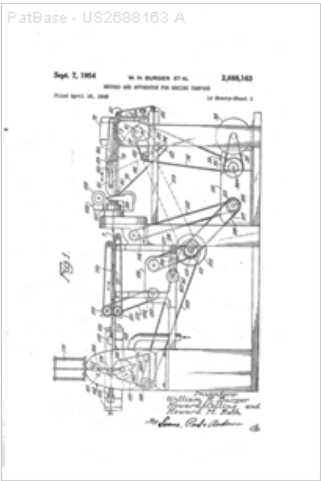
4. Family 21885286 (US2688163 A)

[View in PatBase](#)

Title
[EN] METHOD AND APPARATUS FOR MAKING TAMPONS

Abstract
[EN] (Claim 1) 1. The method of making tampons vvhich comprises the steps of successively cutting from the end of a web of body niaterial sections ol p_redetermined width, feeding said sections continuously in an endwise direction and horizontally in spaced relation to each other, forming a continuous tubular jacket about said sections, whereby there is provided unfilled jacket material intermediate the successive sections, applying pulling force to the jacketed sections so as to propel said sections through mechanism for forming said tubular jacket, and subsequently severing the jacket material intermediate sa-id successive sections to thereby form independent tampon -,inits.

International Class: A61F13/20
Cooperative Patent Class: A61F13/2085
US Class: 28/121



Family Information

Patent Number	Publication Date	Application Number	Application Date
US2688163 A	19540907	US19480021404	19480416

Priority Numbers: US19480021404 [19480416]
Probable Patent Assignee: INT CELLUCOTTON PRODUCTS
Assignees: INT CELLUCOTTON PRODUCTS
Non Std Assignees: INTERNATIONAL CELLUCOTTON PRODUCTS COMPANY; INT CELLUCOTTON PRODUCTS CO
Inventors: COLLINS HOWARD A; RUTH HOWARD M; BURGER WILLIAM H

5. Family 29942533 (GB1024184 A)

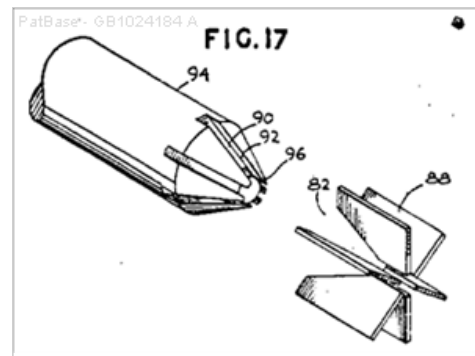
[View in PatBase](#)

Title

[EN] DEVICE FOR INTRODUCING OBJECTS INTO BODY CAVITIES

Abstract

[EN] 1,024,184. Creasing and forming tampon introducers. J. A. VOSS. Feb. 18, 1964 [March 21, 1963], No. 6815/64. Heading B6J. [Also in Division A5] The end of a tampon applicator tube is folded to a conical shape by first crimping the end to a frusto-conical form, Figs. 6 and 7 (not shown), using die parts 88, 94 and then by pressing the end in a die so that it is pointed. The folds of the applicator tube may be opened and closed several times in manufacture to provide ease of opening in the final product. An ejector tube, to be placed inside the applicator tube, is provided with an end of reduced diameter by a similar two-stage process using similar dies, Figs. 18-25 (not shown). The tubes are of kraft paper coated on one or both surfaces with polyethylene film, or are of cardboard, rubber, or a plastics material.



International Class: A61F13/20; A61F13/26; A61F13/16; A61M31/00

Cooperative Patent Class: A61F13/26; A61F13/2085; Y10T29/49801

US Class: 29/419.1; 493/154; 604/14; D24/141

Family Information

	Patent Number	Publication Date	Application Number	Application Date
	DE1491239 A1	19690313	DE1964V025632	19640318
	DE1491239 C3	19770804	DE1964V0025632	19640318
	FR1430096 A	19660304	FR19640966701	19640309
	GB1024184 A	19660330	GB19640006815	19640218
	US3204635 A	19650907	US19630266914	19630321
	US3358354 A	19671219	US19650464127	19650615

Priority Numbers: US19630266914 [19630321]; FR19640966701 [19640309]; US19650464127 [19650615]

Probable Patent Assignee: VOSS

Assignees: KIMBERLY CLARK CO; JOSEPH ALOYSIUS VOSS; VOSS; KIMBERLY CLARK CORP NEENAH WIS V ST A

Non Std Assignees: KIMBERLY CLARK CORP; KIMBERLY-CLARK CORP NEENAH WIS (V ST A); BIO MED PLASTICS INC; KAUFMAN JACK W

Inventors: ALOYSIUS VOSS JOSEPH; WILLIAM JOHNSON CARL; JOHNSON CARL WILLIAM; VOSS JOSEPH ALOYSIUS; JOHNSON CARL W; VOSS JOSEPH A

Non Std Inventors: VOSS JOSEPH ALOYSIUS DENVER; COL; JOHNSON CARL WILLIAM BOULDER

6. Family 19598036 (GB645048 A)

[View in PatBase](#)

Title
[EN] Improvements in an apparatus and method for making tampons

Abstract
[EN] 24432.

[Class 31 (i)] [Also in Groups VI and XVII] Wrapped articles 6, Fig.

3, initially joined by a neck 7 of wrapping material, are fed into clips 129 on a rotating drum 130, glue is applied to the wrapper neck at the point 164 and is dried by a stream of air through a tube 193 and the fabric wrapper is cut at the point 194, the hardened glue preventing unravelling of the fabric.

The cutting device is shown in Fig.

16 and comprises two rotating arms 194, 195, one carrying cutting blades 203 and the other carrying co-operating anvils 204.

The arms are so geared that the cutters are travelling at the same speed as the wrapper 7 at the time of cutting.

Engagement of the anvil with the cutter is adjusted by means of a wedge 205, the position of which is set by a screw 206.

International Class: A61F13/20

Cooperative Patent Class: A61F13/2051; A61F13/2085

Family Information

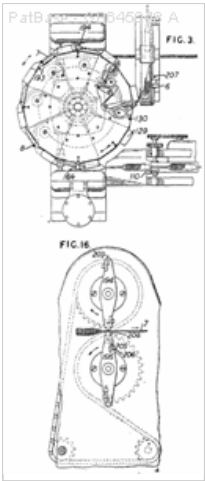
	Patent Number	Publication Date	Application Number	Application Date
	GB645048 A	19501025	GB19480024432	19480917

Priority Numbers: GB19480024432 [19480917]

Probable Patent Assignee: INT CELLUCOTTON PRODUCTS

Assignees: INT CELLUCOTTON PRODUCTS

Non Std Assignees: INTERNATIONAL CELLUCOTTON PRODUCTS COMPANY; INT CELLUCOTTON PRODUCTS CO



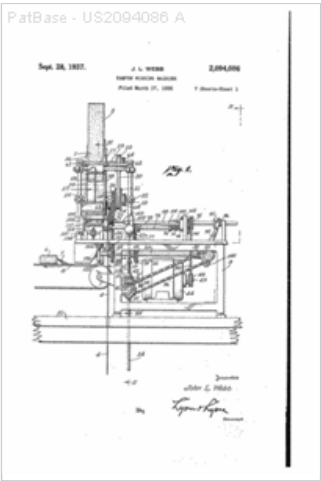
7. Family 22305053 (US2094086 A)

[View in PatBase](#)

Title
[EN] TAMPON WINDING MACHINE

Abstract
[EN] 1. In a machine of thc type described, feeding means for delivering a strip of material into a predetermined position, a pair of spaced apart winding needles, means for positioning said needles adjacent one end of a strip in said predetermined position, means for entering an intermediate portion of said strip between said needles, means for revolving said needles to wind the remainder of the strip thereabout, means for pulling the wound strip olf the needles, and means for actuating said feeding means, strip-entering means, needle revolving means, and strip-pulling means in timed relation.

International Class: A61F13/20; D01G27/00
Cooperative Patent Class: A61F13/2085; D01G27/00
US Class: 28/120



Family Information

Patent Number	Publication Date	Application Number	Application Date
US2094086 A	19370928	US19360069297	19360317

Priority Numbers: US19360069297 [19360317]
Probable Patent Assignee: HOLLY PAX INC
Assignees: HOLLY PAX INC
Inventors: WEBB JOHN L

8. Family 20625345 (GB459487 A)

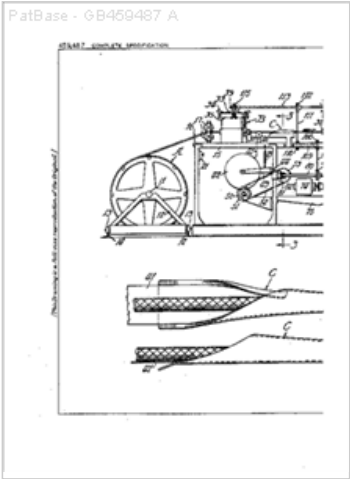
[View in PatBase](#)

Title
[EN] Improvement in cord coating apparatus

Abstract
[EN] A tampon suitable for catamenial use comprises a cord of cotton wadding held together by braiding, an inner coating of starch, a wrapping of cotton wadding in strip or sheet form, and a second coating of starch.

International Class: A61F13/20; B05D7/22

Cooperative Patent Class: A61F13/2085



Family Information

	Patent Number	Publication Date	Application Number	Application Date
	GB459487 A	19370108	GB19360017986	19360629

Priority Numbers: GB19360017986 [19360629]
Probable Patent Assignee: PAPER PATENTS CO
Assignees: PAPER PATENTS CO
Non Std Assignees: PAPER PATENTS COMPANY

9. Family 28930125 (US3874032 A)

[View in PatBase](#)

Title

[EN] METHOD AND APPARATUS FOR THE MANUFACTURE OF TAMPONS

Abstract

[EN] An improvement in a process for the manufacture of tampons wherein a batting is wound into a plurality of rolls, the rolls are transferred to a pressing process wherein they are pressed into tampons and the so-formed tampons are transferred into storage or packing, which improvement comprises intermittently feeding said plurality of rolls to a transfer means, intermittently removing said rolls from said transfer means and feeding them into a presser, intermittently removing them from said presser and intermittently feeding them to a second transfer means and continuously delivering the tampons formed in said presser to storage.

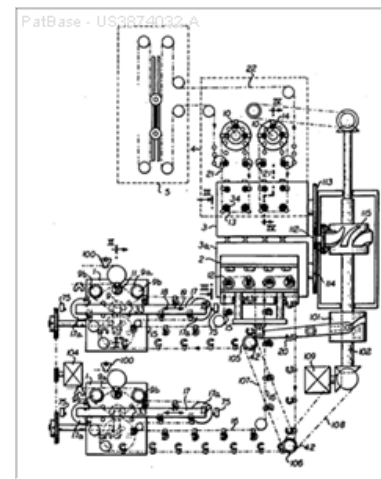
International Class: A61F13/20; D04H1/00; D04H1/02; A61F13/00; A61L15/00; B65B63/00; B65G17/12; B65G49/00; B65H35/00; B65H37/00; B65H75/00; D01G25/00

Cooperative Patent Class: A61F13/2085

US Class: 19/144.5; 191/445; 28/119

Family Information

Patent Number	Publication Date	Application Number	Application Date
AR197873 A1	19740515	AR19720243094	19720714
AT333944 B	19761227	AT19720005314	19720620
AT531472 A	19760415	AT19720005314	19720620
AU197244262 A1	19740110	AU19720044262	19720705
AU475874 B2	19760909	AU19720044262	19720705
BE786167 A	19721103	BE19720786167	19720712
BR7204672 A0	19730524	BR19720004672	19720714
CA961817 A1	19750128	CA19720147138	19720714
CH540045 A	19730815	CH19720009298	19720621
CS178115 B2	19770831	CS19720004981	19720713
DD98446 C	19730620	DD19720164415	19720713
DE2135495 A1	19730125	DE19712135495	19710715
DE2135495 B2	19810402	DE19712135495	19710715
DE2135495 C3	19820325	DE19712135495	19710715
DK132372 B	19751201	DK19720003540	19720714
DK132372 C	19760503	DK19720003540	19720714
ES404813 A1	19760116	ES19720404813	19720713
FI57351 B	19800430	FI19720001922	19720706
FI57351 C	19800811	FI19720001922	19720706
FR2146041 A5	19730223	FR19720025300	19720712
GB1398632 A	19750625	GB19720032658	19720712
IT964676 A	19740131	IT19720069289	19720714
JP57044335 B4	19820921	JP19720070688	19720714
NO129984 B	19740624	NO19720002538	19720714
PL82719 P	19751031	PL19720156652	19720711
RO61854 P	19780115	RO19720071599	19720713
SE410818 B	19791112	SE19720009325	19720714
SE410818 C	19800221	SE19720009325	19720714
SU510152 A3	19760405	SU19721856806	19721213
SU510152 D	19760405	SU19721856806	19721213
US3874032 A	19750401	US19720270978	19720712
YU177372 A	19810228	YU19720001773	19720706
YU35839 B	19810831	YU19720001773	19720706



Patent Number	Publication Date	Application Number	Application Date
 ZA7204545 A	19730328	ZA19720004545	19720703

Priority Numbers: DE19712135495 [19710715]

Probable Patent Assignee: HAHN CARL DR KG

Assignees: HAHN C GMBH; C HAHN GMBH; HAHN CARL DR GMBH; HAHN DR C G M B H; HAHN DR C GMBH; HAHN DR CARL GMBH; HAHN CARL DR KG; CARL HANH GMBH; HAHN CARL GMBH; HAHN C GMBH DT; DR CARL HAHN GMBH DE; DR CARL HAHN G M B H KAISERSWERTHER STRASSE 270 D; HAHN G M B H

Non Std Assignees: DR CARL HAHN GMBH; HAHN DR C; HAHN DR CARL G M B H; SIMON STEFAN; JOHST WOLFGANG; DR CARL HAHN KG 4000 DUESSELDORF; DR CARL HAHN 4000 DUESSELDORF KG; DR CARL HAHN GMBH 4000 DUESSELDORF DE; HAHN GMBH DR CARL; DRCARL HAHN GMBH DE; DR CARL HAHN G M B H; DR CARL HAHN G M B H KAISERSWERTHER STRASSE 270 DU; DR CARL HAHN G M B H KAISERSWERTHER STRASSE 270 DUSSELDORF ALLEMAGNE

Inventors: JOHST WOLFGANG; SIMON STEFAN; STEFAN SIMON; WOLFGANG JOHST; JOHST W; SIMON S; SIMON STEFAN ING

Non Std Inventors: JOHST WOLFGANG 5820 GEVELSBERG; JOHST WOLFGANG 5820 GEVELSBERG DE; JOHST W DT; SIMON S OE; JOHST WOLFGANG DE; SIMON STEFAN OE; S SIMON; W JOHST

10. Family 45500438 (US3946463 A)

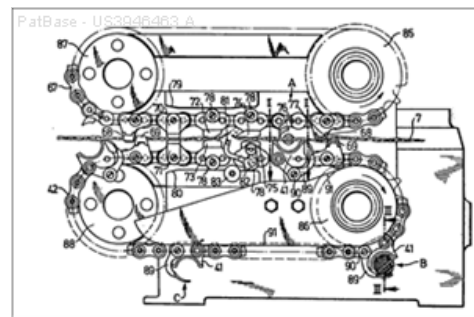
[View in PatBase](#)

Title

[EN] METHOD APPLYING THE FREE END OF A WITHDRAWING TAPE TO A TAMPON ROLL

Abstract

[EN] An improvement in a process for preparing a tampon having a withdrawal string or tape positioned against the withdrawal end of the tampon, the improvement comprising forming the tampon body by winding a batting material strip to which is attached a withdrawal string or tape while maintaining said string or tape disposed away from said material strip and in containing it coaxial with respect to the roll axis of the batting material strip disposing the same in a cavity disposed at the withdrawal end of the so formed tampon.



International Class: A61F13/20; A61F13/34; B65H19/22; A61L15/00; A61L17/00; B65B61/14; D01G25/00

Cooperative Patent Class: A61F13/2085

US Class: 19/144.5; 28/120

Family Information

Patent Number	Publication Date	Application Number	Application Date
AR199317 A1	19740823	AR19730250679	19731024
AT335052 B	19770225	AT19730008385	19731001
AT838573 A	19760615	AT19730008385	19731001
AU197361739 A1	19750424	AU19730061739	19731024
BE806655 A	19740215	BE19730137180	19731029
BR7308456 A0	19740924	BR19730008456	19731029
CA994730 A1	19760810	CA19730184491	19731029
CH566778 A	19750930	CH19730014172	19731004
CS172267 B2	19761229	CS19730007416	19731029
DD108204 C	19740912	DD19730174313	19731026
DE2253180 A1	19740509	DE19722253180	19721030
DE2253180 B2	19740822	DE19722253180	19721030
DE2253180 C3	19750417	DE19722253180	19721030
DK133933 B	19760816	DK19730005835	19731029
DK133933 C	19770124	DK19730005835	19731029
ES419743 A1	19760701	ES19730419743	19731018
ES443477 A1	19770501	ES19750443477	19751213
FI58062 B	19800829	FI19730003301	19731024
FI58062 C	19801210	FI19730003301	19731024
FR2204393 A1	19740524	FR19730038238	19731026
FR2204393 B1	19781117	FR19730038238	19731026
GB1435830 A	19760519	GB19730049138	19731022
IN140011 A	19760904	IN1973CA02374	19731026
IT999633 A	19760310	IT19730069970	19731009
JP1343635 C3	19861029	JP19730122139	19731030
JP49077492 A2	19740725	JP19730122139	19731030
JP61007825 B4	19860310	JP19730122139	19731030
NL7215282 A	19740514	NL19720015282	19721110
NO132944 B	19751103	NO19730004187	19731030
NO132944 C	19760211	NO19730004187	19731030
PL87006 P	19760630	PL19730166187	19731029
RO70229 P	19820817	RO19730076452	19731029
SE405802 B	19790108	SE19730014666	19731029

	Patent Number	Publication Date	Application Number	Application Date
	SE405802 C	19790419	SE19730014666	19731029
	SU549067 A3	19770228	SU19742025858	19740514
	SU549067 D	19770228	SU19742025858	19740514
	SU670209 A3	19790625	SU19752190906	19751113
	SU670209 D	19790625	SU19752190906	19751113
	US3946463 A	19760330	US19730408215	19731019
	US4012809 A	19770322	US19750571454	19750425
	YU277073 A	19820225	YU19730002770	19731024
	ZA7308039 A	19741030	ZA19730008039	19731016

Priority Numbers: DE19722253180 [19721030]; NL19720015282 [19721110]; NL19727215282 [19721110]; US19750571454 [19750425]; US19730408215 [19731019]

Probable Patent Assignee: HAHN CARL DR GMBH

Assignees: HAHN CARL DR GMBH; HAHN C DR GMBH; HAHN C GMBH; GMBH; HAHN CARL GMBH

Non Std Assignees: CARL HAHN GMBH; DR CARL HAHN GMBH; HAHN DR CARL GMBH; DR CARL HAHN G M B H; JOHST WOLFGANG; WARNCKE NIELS; DR CARL HAHN GMBH 4000 DUESSELDORF; HAHN GMBH CARL DT; HAHN GMBH CARL; HAHN GMBH DR CARL; DR CARL HAHN GMBH DE; DRCARL HAHN GMBH DE; DR KARL KHAN GMBKH OPMA; DR CARL HAHN G M B H KAISERSWERTHERSTRASSE 270 DUSSELDORF ALLEMAGNE; DR KARL KHAN GMBKH (OPMA); HAHN CARL (DR) GMBH

Inventors: WARNCKE NIELS; JOHST WOLFGANG; WOLFGANG JOHST; NIELS WARNCKE; JOHST W; WARNCKE N; WARNCKE NIELS DIPL ING; VARNKE NILS; JOST WOLFGANG

Non Std Inventors: JOHST WOLFGANG 5820 GEVELSBERG; NIIRUSU UARUNKE; UORUFUGANGU YOOSUTO; JOHST WOLFGANG DE; WARNCKE NIELS DE; N WARNCKE; W JOHST; NILS VARNKE DT; WOLFGANG JOST DT

11. Family 31161886 (DE2200549 B1)

[View in PatBase](#)

Title

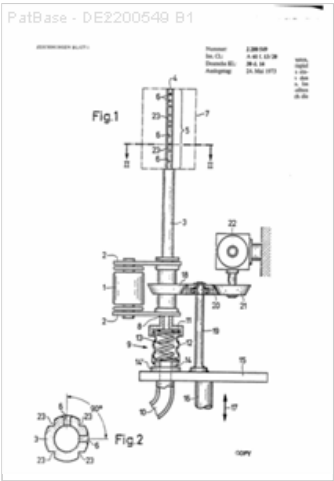
[MT] Device for spiral wound strip of cotton

Abstract

[MT] (Claim 1) 1 Apparatus for spiral winding of cotton strips for the manufacture of tampons with at least one of its longitudinal axis rotation Baren mandrel, characterized in that the winding mandrel (3) one to be nervous front end (4) sealed tube, in the sen coat in the wind zone are (5) drill holes (6) arranged and its rear end (8) is connected to a suction device.

International Class: A61F13/20

Cooperative Patent Class: A61F13/2085



Family Information

Patent Number	Publication Date	Application Number	Application Date
DE2200549 B1	19730524	DE19722200549	19720107

Priority Numbers: DE19722200549 [19720107]

Probable Patent Assignee: SCHICKEDANZ VER PAPIERWERK

Assignees: SCHICKEDANZ VER PAPIERWERK

Non Std Assignees: VEREINIGTE PAPIERWERKE SCHICKEDANZ AND CO 8500 NUERNBERG; VEREINIGTE PAPIERWERKE SCHICKEDANZ AND CO; VEREINIGTE PAPIERWERKE SCHICKEDANZ AND CO 8500 NUE

Inventors: ZIMMERMANN MICHAEL

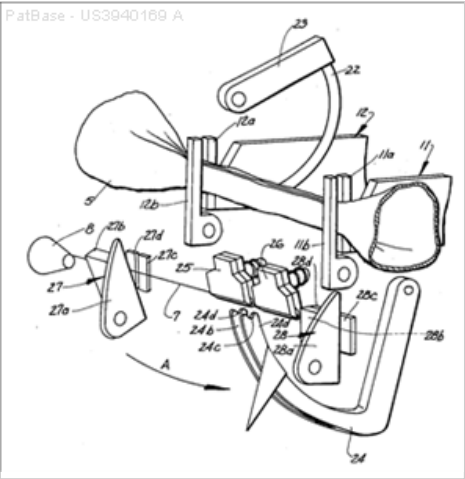
Non Std Inventors: ZIMMERMANN MICHAEL 6000 FRANKFURT

12. Family 1241505 (US3940169 A)

[View in PatBase](#)

Title
[EN] LOOP KNOT TYING METHOD AND APPARATUS

Abstract
[EN] A process and apparatus for forming from string a simple loop knot either through or about a product. While individual products may be hand-fed to the apparatus, the apparatus is adapted to perform the process continuously, rapidly and automatically upon a product in the form of a continuous flexible web utilizing a single, continuous, external string source. In an exemplary embodiment the apparatus comprises a rotating drum carrying a plurality of identical heads, each head operating upon a segment of the product web to form individual loop knotted products therefrom. Although the number of operations performed by each head upon the product web may be varied, in the exemplary embodiment to be described each head is provided with operating instrumentalities to pleat the web, clamp the pleated web, seal the web at a glue stripe printed thereon, meter the correct length of string, cut the metered string, pierce the pleated web, form a simple loop knot through the pierced hole and about the side of the web, cut the web and display a finished individual product by its string for pick-up by a discharge transfer means.



International Class: A61F13/20; A61F13/34; B65B51/08; B65B51/00; B65H69/00; B65H69/04; A61F13/16; A61L15/00; B65B13/26; D03J3/00; D05B23/00; D05B45/00; D05B65/00

Cooperative Patent Class: A61F13/2085; B65B51/08

US Class: 289/1.5; 289/18.1

Family Information

Patent Number	Publication Date	Application Number	Application Date
BE834656 A	19760420	BE19750161060	19751020
CA1034620 A1	19780711	CA19750238048	19751021
DE2547306 A1	19760429	DE19752547306	19751022
ES441976 A1	19770701	ES19750441976	19751022
FR2288676 A1	19760521	FR19750032202	19751021
FR2288676 B1	19790601	FR19750032202	19751021
GB1522337 A	19780823	GB19750042787	19751017
IT1043537 A	19800229	IT19750028508	19751021
JP51092596 A2	19760813	JP19750126464	19751022
NL7512349 A	19760426	NL19750012349	19751021
SE409944 B	19790917	SE19750011795	19751021
SE409944 C	19800103	SE19750011795	19751021
SE7511795 A	19760423	SE19750011795D	19751021
SE7511795 L	19760423	SE19750011795	19751021
US3940169 A	19760224	US19740517110	19741022

Priority Numbers: US19740517110 [19741022]

Probable Patent Assignee: PROCTER AND GAMBLE CO

Assignees: PROCTER AND GAMBLE

Non Std Assignees: PROCTER AND GAMBLE COMPANY THE; PROCTER AND GAMBLE CO; KOCK RONALD W; PROCTER AND GAMBLE CO THE; THE PROCTER AND GAMBLE CO; THE PROCTER AND GAMBLE COMPANY; PROCTER AND GAMBLE CY; THE PROCTER AND GAMBLE COMPANY TE CINCINNATI OHIO VER ST V AM; PROCTER AND GAMBLE CO TE CINCINNATI OHIO VERSTVAM; PROCTER AND GAMBLE COMPANY; THE PROCTER AND GAMBLE COMPANY TE CINCINNATI OHIO

Inventors: KOCK RONALD W; KOCK RONALD WAYNE; KOCK R W

Non Std Inventors: WAYNE KOCK RONALD; R W KOCK

13. Family 4896697 (NL7110169 A)

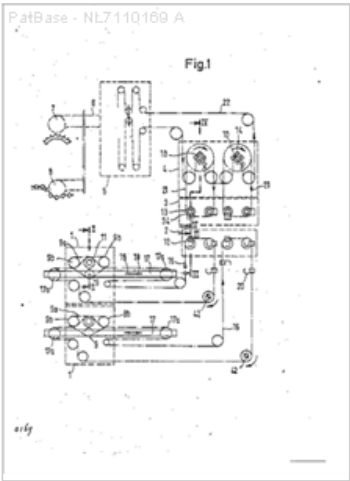
[View in PatBase](#)

Title
[EN] TAMPONS PRODN - FROM ENDLESS WEBS OF WADDING

Abstract
[EN] Tampons produced from endless webs of wadding are packed at a rate of 240 / min. at the delivery end of a plant layout having transfer conveyors designed to cope with the partly intermittent and partly continuous operation of the machines in the line. Roll winding machines working in parallel push the rolls into the carriers of two conveyors which feed the four track press. From the press two further conveyors receive the tampons and transfer them to a single conveyor which delivers them to a buffer store for the packing machine.

International Class: A61F13/20; D04H1/02

Cooperative Patent Class: A61F13/2085



Family Information

	Patent Number	Publication Date	Application Number	Application Date
	NL155726 B	19780215	NL19710010169	19710723
	NL7110169 A	19730125	NL19710010169	19710723

Priority Numbers: NL19710010169 [19710723]

Probable Patent Assignee: HAHN CARL DR KG

Assignees: HAHN CARL DR KG

Non Std Assignees: DR CARL HAHN KG DUESSELDORF BONDSREPUBLIC DUITSLAND

14. Family 19382671 (GB614378 A)

[View in PatBase](#)

Title
[EN] Improvements in apparatus for forming cotton or like absorbent pads

Abstract
[EN] 21019.

Drawings to Specification.

[Class 142(iv)] [Also in Group VI] Apparatus for compressing absorbent pads includes a chamber in which a pad is puckered lengthwise by a plunger, compressed sideways to cylindrical shape by a die moving towards a fixed die, and ejected through an exit which is parallel to but out of line with the entrance.

An enlarged head is then formed on the pad by another die.

International Class: A61F13/20; A61F13/16

Cooperative Patent Class: A61F13/2085

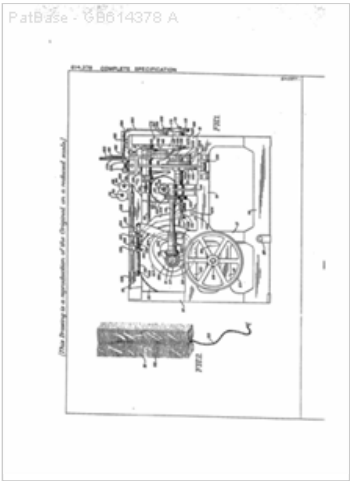
Family Information

	Patent Number	Publication Date	Application Number	Application Date
	GB614378 A	19481214	GB19460021019	19460713

Priority Numbers: GB19460021019 [19460713]

Probable Patent Assignee: JOHN RALPH MCLAUGHLIN

Assignees: JOHN RALPH MCLAUGHLIN



15. Family 22496823 (US3131435 A)

[View in PatBase](#)

Title

[EN] MANUFACTURE OF CELLULOSIC PRODUCTS

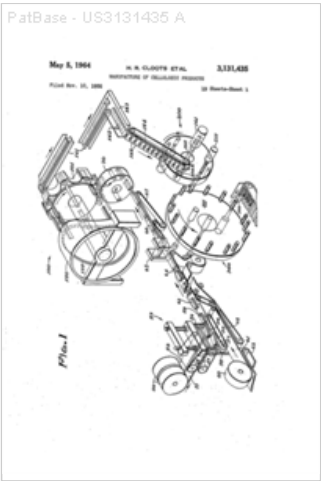
Abstract

[EN] (Claim 1) 1. The process of making an elongate cylindrical compressed tampon from an elongate mass of uncompressed fibrous material, comprising compressing said mass transversely simultaneously in two mutually perpendicular directions, then while holdin_. said mass thus transversely compressed compressing it lon,-itudinally, then releasing said mass lon.-itudinally to freedom from compression, then compressing said mass transversely to a cylindrical shape approximating the sh,,ipe of the i'lnished tampon, and then, while holdina said mass against transverse reexpansion, compressin- it lo-_igitudinally to the shape of the finished tampon. _

International Class: A61F13/20

Cooperative Patent Class: A61F13/2085

US Class: 112/2; 28/119; 28/120



Family Information

Patent Number	Publication Date	Application Number	Application Date
US3131435 A	19640505	US19580773020	19581110

Priority Numbers: US19580773020 [19581110]

Probable Patent Assignee: KIMBERLY CLARK CORP

Assignees: KIMBERLY CLARK CO

Non Std Assignees: KIMBERLY CLARK CORP

Inventors: RIGHTOR JR EDWARD; ROBERT CLOOTS HENRY; ARTHUR HENDERSON CHARLES

Non Std Inventors: CLOOTS HENRY ROBERT; HENDERSON CHARLES ARTHUR; JR EDWARD RIGHTOR

16. Family 59580370 (US2015173875 AA)

[View in PatBase](#)

Title

[EN] VAGINAL INSERT METHOD OF MANUFACTURE

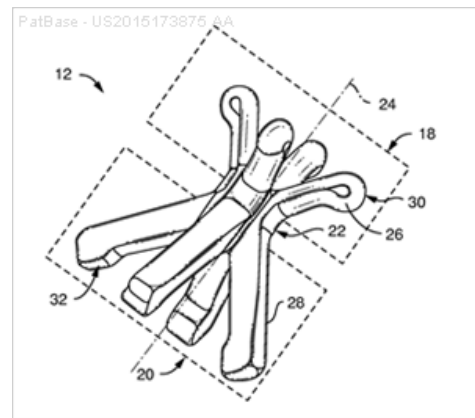
Abstract

[EN] A method of manufacture for a vaginal insert. The vaginal insert may have a core, a cover, and a removal element. In various embodiments, the cover can be conformed to the vaginal insert.

International Class: A61F13/20; A61F13/26; A61F13/34; A61F2/00; B65H69/04

Cooperative Patent Class: A61F2/0009; A61F2/005; B65H2701/31; B65H69/04; Y10T29/49826; A61F2/00

US Class: 29/428



Family Information

	Patent Number	Publication Date	Application Number	Application Date
	BR112016013758 A2	20170808	BR20161113758	20141215
	BR112016013758 B1	20211228	BR20161113758	20141215
	CN105828748 A	20160803	CN201480068318	20141215
	CN105828748 B	20181030	CN201480068318	20141215
	EP3082649 A1	20161026	EP20140871091	20141215
	EP3082649 A4	20170906	EP20140871091	20141215
	MX2016007811 A1	20160907	MX20160007811	20141215
	MX364998 B	20190516	MX20160007811	20141215
	US10159550 BB	20181225	US20130137823	20131220
	US2015173875 AA	20150625	US20130137823	20131220
	WO15092655 A1	20150625	WO20141B66924	20141215

Priority Numbers: US20130137823 [20131220]; WO20141B66924 [20141215]

Probable Patent Assignee: KIMBERLY CLARK CORP

Assignees: KIMBERLY CLARK CO

Non Std Assignees: KIMBERLY CLARK WORLDWIDE INC; KIMBERLY CLARK WORLWIDE INC; KIMBERLY CLARK CORP

Inventors: CHADWICK I ROMZEK; CLAUDIU ANDREI BOURUC; TODD W WILKES; DAVID JOHN ENZ; JESSE J PASTERSKI; KURT G KRUPKA; BRIAN WAYNE TOMAC; SARAH ANNE OLSON; OLSON SARAH ANNE; BOURUC CLAUDIU ANDREI; PASTERSKI JESSE J; ROMZEK CHADWICK I; WILKES TODD W; TOMAC BRIAN WAYNE; ENZ DAVID JOHN; KRUPKA KURT G

Agent(s): DAVIES CHRISTOPHER ROBERT; EUGENIO PEREZ PEREZ; JOSE PABLO PEREZ ZEA; KIMBERLY CLARK WORLDWIDE INC; KIMBERLY CLARK WORLDWIDE INC; DRESSSEL SARAH ANN

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

17. Family 59580371 (US2015173876 AA)

[View in PatBase](#)

Title
[EN] VAGINAL INSERT METHOD OF MANUFACTURE

Abstract
[EN] A method of manufacture for a vaginal insert. The vaginal insert may have a core, a cover, and a removal element. In various embodiments, the cover can be conformed to the vaginal insert.

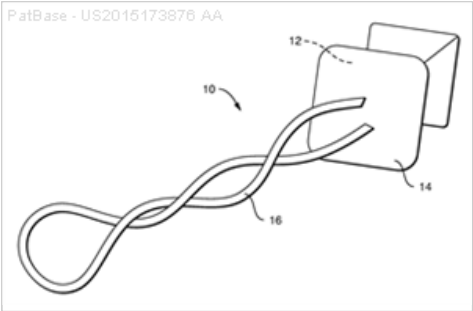
International Class: A61F2/00; A61F5/48; A61F13/20; A61F13/26; A61F13/34; B65H69/04; A61F13/15

Cooperative Patent Class: A61F2/005; A61F2/0095; A61F2230/0078; A61F2230/008; A61F2240/001; B65H69/04; A61F13/15; A61F2/0022; A61F2/00; A61F5/48; A61F2230/0065; B23P21/00; B23Q3/00

US Class: 1/1; 100/214; 28/120; 289/2; 53/235; 53/413; 53/452

Family Information

	Patent Number	Publication Date	Application Number	Application Date
	BR112016013638 A2	20170808	BR20161113638	20141215
	BR112016013638 B1	20220104	BR20161113638	20141215
	BR112016013947 A2	20170808	BR20161113947	20141215
	BR112016013947 B1	20220104	BR20161113947	20141215
	BR112016014105 A2	20170808	BR20161114105	20141215
	BR112016014105 B1	20220208	BR20161114105	20141215
	BR112016014140 A2	20170808	BR20161114140	20141215
	BR112016014140 B1	20220222	BR20161114140	20141215
	CN105813598 A	20160727	CN201480067592	20141215
	CN105813598 B	20190215	CN201480067592	20141215
	CN105813599 A	20160727	CN201480067713	20141215
	CN105813599 B	20180529	CN201480067713	20141215
	CN105813600 A	20160727	CN201480068020	20141215
	CN105813600 B	20180731	CN201480068020	20141215
	CN105828749 A	20160803	CN201480068687	20141215
	CN105828749 B	20180821	CN201480068687	20141215
	DE602014041545 D1	20190314	DE201460041545T	20141215
	EP3082648 A1	20161026	EP20140870741	20141215
	EP3082648 A4	20170906	EP20140870741	20141215
	EP3082648 B1	20190220	EP20140870741	20141215
	EP3082650 A1	20161026	EP20140871902	20141215
	EP3082650 A4	20180110	EP20140871902	20141215
	EP3082651 A1	20161026	EP20140871963	20141215
	EP3082651 A4	20171011	EP20140871963	20141215
	EP3082652 A1	20161026	EP20140872491	20141215
	EP3082652 A4	20170906	EP20140872491	20141215
	MX2016007365 A1	20160908	MX20160007365	20141215
	MX2016007812 A1	20160907	MX20160007812	20141215
	MX2016007923 A1	20160913	MX20160007923	20141215
	MX2016007925 A1	20160913	MX20160007925	20141215
	MX348343 B	20170606	MX20160007923	20141215
	MX349978 B	20170822	MX20160007925	20141215
	MX354418 B	20180302	MX20160007812	20141215
	MX366300 B	20190703	MX20160007365	20141215



	Patent Number	Publication Date	Application Number	Application Date
	MX387887 B	20211112	MX20170008894	20141215
	US10159551 BB	20181225	US20130137797	20131220
	US2015173876 AA	20150625	US20130137797	20131220
	US2015173877 AA	20150625	US20130137844	20131220
	US2015173878 AA	20150625	US20130137855	20131220
	US2015173879 AA	20150625	US20130137870	20131220
	US9475671 BB	20161025	US20130137855	20131220
	US9510923 BB	20161206	US20130137870	20131220
	US9782244 BB	20171010	US20130137844	20131220
	WO15092654 A1	20150625	WO2014IB66923	20141215
	WO15092656 A1	20150625	WO2014IB66925	20141215
	WO15092657 A1	20150625	WO2014IB66926	20141215
	WO15092658 A1	20150625	WO2014IB66928	20141215

Priority Numbers: US20130137797 [20131220]; WO2014IB66923 [20141215]; US20130137855 [20131220]; WO2014IB66926 [20141215]; US20130137844 [20131220]; WO2014IB66925 [20141215]; US20130137870 [20131220]; WO2014IB66928 [20141215]; EP20140870741 [20141215]

Probable Patent Assignee: KIMBERLY CLARK CORP

Assignees: KIMBERLY CLARK CO; KIMBERLY CLARK CO LTD; KIMBERLY CLARK WORDLWIDE INC

Non Std Assignees: KIMBERLY CLARK WORLDWIDE INC; KIMBERLY CLARK WORLDWIDE INC NEENAH; KIMBERLY CLARK CORP

Inventors: CHADWICK I ROMZEK; CLAUDIU ANDREI BOURUC; TODD W WILKES; DAVID JOHN ENZ; JESSE J PASTERSKI; KURT G KRUPKA; BRIAN WAYNE TOMAC; SARAH ANNE OLSON; SCOTT A ADLER; SCOTT A AINSWORTH; TOD W HELENIAC; JEFFREY LOUIS HEINEN; CHARLES A SAMPLE; ADLER SCOTT A; HELENIAC TOD W; TOMAC BRIAN WAYNE; AINSWORTH SCOTT A; KRUPKA KURT G; PASTERSKI JESSE J; ROMZEK CHADWICK I; HEINEN JEFFREY LOUIS; OLSON SARAH ANNE; BOURUC CLAUDIU ANDREI; WILKES TODD W; ENZ DAVID JOHN; SAMPLE CHARLES A; SAMPLE CHARLES ROBERT

Non Std Inventors: SARAH ANN OLSON; ROMZEK CHADWICK I NEENAH; BOURUC CLAUDIU ANDREI NEENAH; WILKES TODD W NEENAH; ENZ DAVID JOHN NEENAH; PASTERSKI JESSE J NEENAH; KRUPKA KURT G NEENAH; TOMAC BRIAN WAYNE DE PERE; OLSON SARAH ANNE NEENAH

Agent(s): DAVIES CHRISTOPHER ROBERT; DEHNS; FRANCISCO JAVIER UHTHOFF ORIVE; EUGENIO PEREZ PEREZ; JOSE PABLO PEREZ ZEA; KIMBERLY CLARK WORLDWIDE INC; KIMBERLY CLARK WORLDWIDE INC; DRESSEL SARAH ANN

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

18. Family 128311 (US3866737 A)

[View in PatBase](#)

Title

[EN] METHOD AND APPARATUS FOR THE CONTINUOUS TRANSFER OF LONGITUDINALLY EXTENDING WORKPIECES

Abstract

[EN] A method for the continuous transfer of longitudinally extending workpieces of like dimension to a high speed receiving means which comprises axially transferring serially disposed workpieces at a definite graduation transversely to the direction of transport, clamping the workpieces, feeding the workpieces to a transfer station, and thereafter transferring said workpieces in a direction transverse to their longitudinal axis into a receiving means; an apparatus for said method utilizing, in a preferred embodiment, chain-like transport and transfer elements and specially designed workpiece carrying means adapted to grasp the workpiece and to deposit the workpiece into a recess on a receiving means, suitably a blister drum.

International Class: B65B35/00; B65B35/24; B65B35/30; B65B35/40; B65G17/32; A61F13/20; A61L; B65B1/00; B65B19/34; B65B5/00; B65G47/00; B65G47/46; B65G47/52; B65G47/74; B65G47/82; B65G47/84; B65G47/86; B65G47/90; B65G49/00

Cooperative Patent Class: B65B35/405; B65G17/323; B65G2201/02; B65G2812/02346

US Class: 198/22R; 198/470.1; 198/483.1; 198/803.14; 198/803.15; 198/803.8

Family Information

	Patent Number	Publication Date	Application Number	Application Date
	AT317778 B	19740910	AT19710011127	19711227
	AU197237864 A1	19730719	AU19720037864	19720113
	AU472423 B2	19760527	AU19720037864	19720113
	BE778051 A	19720502	BE19720778051	19720114
	BR7200237 A0	19730524	BR19720000237	19720114
	CA965118 A1	19750325	CA19720132427	19720114
	CH549517 A	19740531	CH19720000171	19720106
	DE2101932 A1	19720831	DE19712101932	19710115
	DK137791 B	19780508	DK19720000195	19720114
	DK137791 C	19781016	DK19720000195	19720114
	ES398874 A1	19750616	ES19720398874	19720114
	FR2122247 A5	19720825	FR19720001257	19720114
	GB1364791 A	19740829	GB19720001484	19720112
	IT951074 A	19730630	IT19720067026	19720105
	JP52026022 B4	19770712	JP19720006549	19720114
	NO131976 B	19750526	NO19720000066	19720113
	NO131976 C	19750903	NO19720000066	19720113
	SE408887 B	19790716	SE19720000430	19720114
	SE408887 C	19791025	SE19720000430	19720114
	SU410583 A3	19740105	SU19721738801	19720114
	SU410583 D	19740105	SU19721738801	19720114
	US3866737 A	19750218	US19720216624	19720110
	YU8372 A	19820531	YU19720000083	19720114

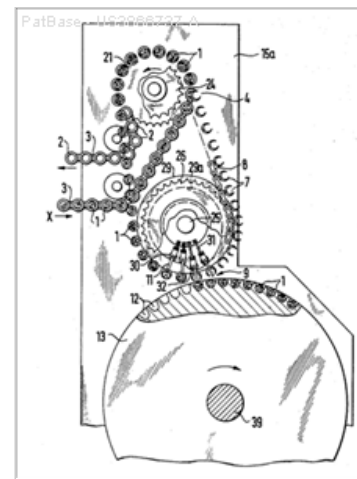
Priority Numbers: DE19712101932 [19710115]

Probable Patent Assignee: HAHN CARL DR KG

Assignees: HAHN CARL DR GMBH; HAHN C DR GMBH; HAHN GMBH; HAHN C GMBH; HAHN CARL DR KG; HAHN C; HAHN; HAHN CARL GMBH

Non Std Assignees: DR CARL HAHN GMBH; HAHN GMBH DR C; HAHN DR CARL G M B H; SIMON STEFAN; HAHN DR CARL GMBH; HAHN GMBH DR CARL; DR CARL HAHN G M B H; DR CARL HAHN G M B H KAISERSWERTHER STRASSE 270 4; DR CARL HAHN G M B H KAISERSWERTHER STRASSE 270 4 DUSSELDORF ALLEMAGNE

Inventors: SIMON STEFAN; SIMON S



Non Std Inventors: STEFAN SIMON; S SIMON

19. Family 23113959 (FR1364187 A)

[View in PatBase](#)

Title

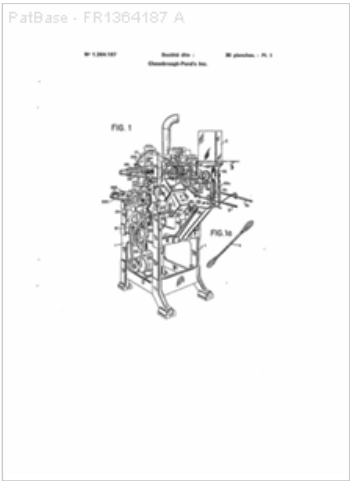
[MT] APPARATUS FOR MANUFACTURING BUFFER

Abstract

[EN] (Claim 1) ** WARNING ** start of CLMS field may contain end of DESC **.

International Class: A61F13/38; A61F13/20

Cooperative Patent Class: A61F13/385



Family Information

	Patent Number	Publication Date	Application Number	Application Date
	FR1364187 A	19640619	FR19630935412	19630520

Priority Numbers: FR19630935412 [19630520]

Probable Patent Assignee: CHESEBROUGH PONDS

Assignees: CHESEBROUGH PONDS

Non Std Assignees: CHESEBROUGH POND S INC

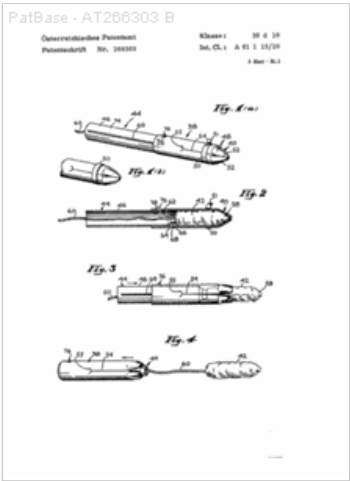
20. Family 24714395 (AT266303 B)

[View in PatBase](#)

Title
[MT] DEVICE FOR THE INSERTION OF HYGIENE PRODUCTS AND DRUG SUBSTANCES IN BODY CAVITIES AND METHOD OF PRODUCING THE DEVICE

Abstract
[MT] [Source: claim 1] 142) sleeve (38, 124) with at least one from a fold of Deployant lock (40, 130) outgoing slot (54) is provided, which rear end flows, where on the sleeves range in a short cross slot slot (54) after the end of the outer sleeve to approximately up to the middle of the sleeve length and forward between two adjacent segments of folding (48, 132) through stretches and goes in the direction of the longitudinal axis of the tube and that the front part of the outer sleeve behind the conical folding canvas from a detachable grip tape (50) is tensioned to.

International Class: A61L15/00; A61L15/10; A61F13/20



Family Information

Patent Number	Publication Date	Application Number	Application Date
AT266303 B	19681111	AT19650002023	19650308

Priority Numbers: AT19650002023 [19650308]
Probable Patent Assignee: KIMBERLY CLARK CORP
Assignees: KIMBERLY CLARK CO
Non Std Assignees: KIMBERLY CLARK CORP