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## (11) EP 4 029 793 A1

#### (12)

#### **EUROPEAN PATENT APPLICATION**

(43) Date of publication: 20.07.2022 Bulletin 2022/29

(21) Application number: 22161049.6

(22) Date of filing: 26.02.2021

(51) International Patent Classification (IPC): **B65B** 11/04 (2006.01)

(52) Cooperative Patent Classification (CPC): **B65B 11/045**; B65B 2210/20

(84) Designated Contracting 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

Designated Extension States:

**BA ME** 

**Designated Validation States:** 

KH MA MD TN

(30) Priority: 28.02.2020 IT 202000004228

(62) Document number(s) of the earlier application(s) in accordance with Art. 76 EPC: 21159772.9 / 3 871 986 (71) Applicant: MITEC S.r.I. con unico socio 47521 Cesena (FC) (IT)

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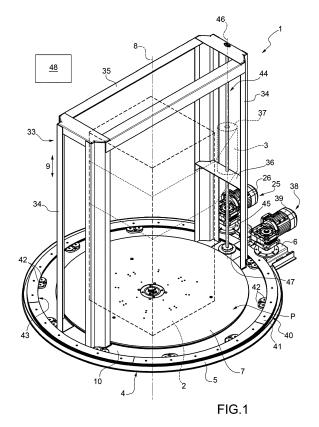
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#### Remarks:

This application was filed on 09.03.2022 as a divisional application to the application mentioned under INID code 62.

#### (54) WRAPPING MACHINE WITH A ROTARY PLATFORM

(57) A wrapping machine with a rotary platform (7) to wrap products (2) with at least one band of wrapping material (3) has a base (4), a rotary platform (7), which defines a support surface (P) for at least one product (2) and is mounted so as to rotate around a rotation axis (8), and a support slide (36), which is configured to receive and hold a spool (37) of the band of wrapping material (3) and is movable along a guide upright (34), which is mounted so as to rotate around the rotation axis (8) with a rotation direction that is contrary to a rotation direction of the rotary platform (7).



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#### CROSS-REFERENCE TO RELATED APPLICATIONS

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**[0001]** This patent application claims priority from Italian patent application no. 10202000004228 filed on 28/02/2020.

#### **TECHNICAL FIELD**

**[0002]** The invention relates to a wrapping machine with a rotary platform.

**[0003]** In particular, the invention relates to a wrapping machine to wrap products with at least one band of wrapping material.

#### **BACKGROUND ART**

**[0004]** When dealing with the wrapping of products in wrapping material bands, a wrapping machine is known, which comprises a base; a rotary platform, which defines a support surface for at least one product and is mounted on the base so as to rotate around a rotation axis, which is substantially vertical and perpendicular to the support surface; and a plurality of support rollers, which are interposed between the base and the rotary platform and are distributed around the aforesaid rotation axis.

**[0005]** The wrapping machine further comprises a guide upright, which projects upwards from the base and extends in a vertical direction, which is substantially parallel to the rotation axis of the rotary platform; and a support slide, which is configured to receive and hold a spool of wrapping material and is movable along the guide upright so as to wrap the wrapping material band in a spiral around the products combining the movements of the rotary platform around the rotation axis and the movements of the support slide along the guide upright.

**[0006]** Since the guide upright is fixed and the rotation speed of the platform cannot exceed a threshold value set by safety standards in force, known wrapping machines of the type described above have a relatively long operating cycle, during which each product is wrapped in the relative wrapping material band, and, as a consequence, a reduced productivity.

#### DISCLOSURE OF INVENTION

**[0007]** The object of the invention is to provide a wrapping machine with a rotary platform, which does not suffer from the drawbacks discussed above and can be actuated in a straightforward, relatively low-cost manner.

**[0008]** According to the invention there is provided a wrapping machine with a rotary platform according to the appended claims.

#### BRIEF DESCRIPTION OF THE DRAWINGS

[0009] The invention will now be described with refer-

ence to the accompanying drawings showing a non-limiting embodiment thereof, wherein:

figure 1 is a schematic perspective view, with parts removed for greater clarity, of a preferred embodiment of the wrapping machine according to the invention;

figure 2 is a schematic perspective view, with parts removed for greater clarity, of a detail of the wrapping machine of figure 1;

figure 3 is a schematic perspective view, with parts removed for greater clarity, of a detail of figure 2; figure 4 is a schematic perspective view, with parts removed for greater clarity, of a detail of figure 3; figure 5 is a schematic perspective view, with parts removed for greater clarity, of a detail of figure 4; and figure 6 is a schematic sectional view, with parts removed for greater clarity, of a detail of the wrapping machine of figure 1.

#### BEST MODE FOR CARRYING OUT THE INVENTION

**[0010]** With reference to figures 1 to 6, number 1 indicates, as a whole, a wrapping machine to wrap products 2 in a band 3 of wrapping material, in this specific case a stretch film.

**[0011]** The wrapping machine 1 comprises a substantially flat base 4 comprising, in turn, a substantially circular plate 5 and a substantially rectangular board 6, which are connected to one another.

**[0012]** The wrapping machine 1 further comprises a rotary platform 7, which has a circular shape, defines a substantially horizontal support surface P for at least one product 2 and is mounted above the plate 5 so as to rotate, relative to the base 4, around a rotation axis 8, which is substantially parallel to a vertical direction 9.

**[0013]** The wrapping machine 1 further has a feeding disc 10, which is mounted between the plate 5 and the platform 7 coaxially to the axis 8 and radially projects from the platform 7.

**[0014]** The disc 10 is coupled to the base 4 in a rotary manner through the interposition of a plurality of centring wheels 11 (figures 5 and 6), which are uniformly distributed around the axis 8 and along a lower annular flange 10a of the disc 10, project upwards from the plate 5 and are mounted so as to rotate around respective rotation axes 12, which are parallel to one another and to the direction 9.

**[0015]** The wrapping machine 1 further comprises two roller cages 13, 14, the cage 13 being mounted between the plate 5 and the disc 10 and the cage 14 being mounted between the disc 10 and the platform 7.

[0016] The cage 13 comprises an annular support plate 15 (figure 5), which is mounted coaxially to the axis 8 and is coupled to the base 4 in a rotary manner through the interposition of a plurality of centring wheels 16, which are uniformly distributed around the axis 8 and along an inner peripheral edge of the plate 15, project upwards

from the plate 5 and are mounted so as to rotate around respective rotation axes 17, which are parallel to one another and to the direction 9.

**[0017]** The cage 13 is further provided with a plurality of rollers 18, which are mounted through the plate 15, are distributed around the axis 8 and are coupled to the plate 15 in a rotary manner so as to rotate, relative to the plate 15, around respective rotation axes 19, which are substantially radial and transverse to the axis 8.

[0018] The rollers 18 have a diameter which is substantially equal to a distance between the plate 5 and the disc 10, measured parallel to the direction 9, so that they are in contact both with the plate 5 and with the disc 10. [0019] The cage 14 comprises an annular support plate 20 (figures 2 and 3), which is mounted coaxially to the axis 8 and is coupled to the base 4 in a rotary manner through the interposition of a plurality of centring wheels 21, which are uniformly distributed around the axis 8 and along an inner peripheral edge of the plate 20, project downwards from the platform 7 and are mounted so as to rotate around respective rotation axes 22, which are parallel to one another and to the direction 9.

**[0020]** The cage 14 is further provided with a plurality of rollers 23, which are mounted through the plate 20, are distributed around the axis 8 and are coupled to the plate 20 in a rotary manner so as to rotate, relative to the plate 20, around respective rotation axes 24, which are substantially radial and transverse to the axis 8.

**[0021]** The rollers 23 have a diameter which is substantially equal to a distance between the disc 10 and the platform 7, measured parallel to the direction 9, so that they are in contact both with the disc 10 and with the platform 7.

**[0022]** The disc 10 and the platform 7 are moved around the axis 8, with rotation directions that are contrary to one another, by an operating assembly 25 comprising an electric motor 26, which is fixed to the board 6 and has an output shaft, which is provided with a gear (not shown) coupled to a crown wheel 27 (figures 3 and 4), which is obtained along an outer peripheral edge of the disc 10.

**[0023]** The assembly 25 further comprises a transmission device 28 to transmit the rotation motion of the disc 10 to the platform 7.

[0024] The device 28 comprises a crown wheel 29 (figures 2, 3 and 4) obtained along an inner peripheral edge of the disc 10; a crown wheel 30 (figure 2), which is obtained on a lower annular flange 7a of the platform 7 and extends into the crown wheel 29; and a plurality of gears 31 (figures 2-5), which are interposed between the crown wheel 29 and the crown wheel 30, project upwards from the plate 5 and are mounted so as to rotate around respective rotation axes 32, which are parallel to one another and to the direction 9.

**[0025]** With regard to what explained above, it should be pointed out that, when the disc 10 is moved by the motor 26 around the axis 8 with a given rotation direction, the platform 7 is moved by the gears 31 around the axis

8 with a rotation direction that is contrary to the one of the disc 10.

**[0026]** The disc 10 supports a gantry 33 comprising two vertical uprights 34, which extend upwards from the disc 10 in the direction 9, are diametrically opposite one another relative to the axis 8 and carry, connected to their free ends, a horizontal cross member 35, which is transverse to the uprights 34.

[0027] One of the uprights 34 supports a bracket 36, which is coupled to the upright 34 in a sliding manner and is configured to receive and hold a spool 37 of band 3. [0028] The bracket 36 is movable along the relative upright 34 in the direction 9 so as to wrap the band 3 in a spiral around the product 2 combining the movements of the platform 7 and of the gantry 33 around the axis 8 with the movements of the bracket 36 and, hence, of the spool 37 in the direction 9.

**[0029]** The bracket 36 is moved along the relative upright 34 in the direction 9 by an operating assembly 38 comprising an electric motor 39, which is fixed to the board 6 and has an output shaft, which is provided with a gear (not shown) coupled to a crown wheel 40, which is obtained along an outer peripheral edge of a transmission ring 41 (figures 1 and 2).

**[0030]** The ring 41 is mounted coaxially to the axis 8 and is coupled to the disc 10 in a rotary manner through the interposition of a plurality of pairs of centring wheels 42 (figures 1 and 2), which are mounted on the disc 10 and are distributed around the axis 8.

**[0031]** The ring 41 is further provided with a crown wheel 43 (figures 1 and 2) obtained along an inner peripheral edge of its and defines part of a transmission device 44, which is designed to connect the motor 39 and the bracket 36 to one another.

**[0032]** The device 44 further comprises a transmission screw 45, which is coupled in a rotary manner to the disc 10 and to the relative upright 34, so as to rotate, relative to the gantry 33, around a rotation axis 46 parallel to the axis 8, and is further coupled to the bracket 36 through a screw-nut screw coupling.

**[0033]** The screw 45 is provided with a gear 47 (figures 1 and 2), which is splined on a lower end of the screw 45 and is coupled to the crown wheel 43.

**[0034]** The wrapping machine 1 finally comprises an electronic control unit 48, which is configured to selectively control the motors 26 and 39 in such a way that:

when the disc 10 and the ring 41 have the same rotation speed around the axis 8, the assembly consisting of the gear 47, the screw 45 and the bracket 36 is still; and

when the disc 10 and the ring 41 have respective rotation speeds around the axis 8 which are different from one another, the gear 47 and the screw 45 are moved around the axis 46 and the bracket 36 is moved along the screw 45 in the direction 9.

[0035] The wrapping machine 1 offers some advan-

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tages, which are mainly due to the fact that, by combining the movements of the platform 7 and of the gantry 33 around the axis 8 with respective rotation directions that are contrary to one another, the wrapping machine 1 has a relatively short operating cycle, during which each product 2 is wrapped in the relative band 3, and, as a consequence a relatively high productivity.

**[0036]** Furthermore, the wrapping machine 1 offers a further advantage lying in the fact that the electric motor 39 operating the bracket 36 is fixed to the board 6 of the base 4 and the transmission device 44 is mechanical, hence it does not require the use of electrical power supply cables and/or of power supply batteries and/or of electrical sliding contacts.

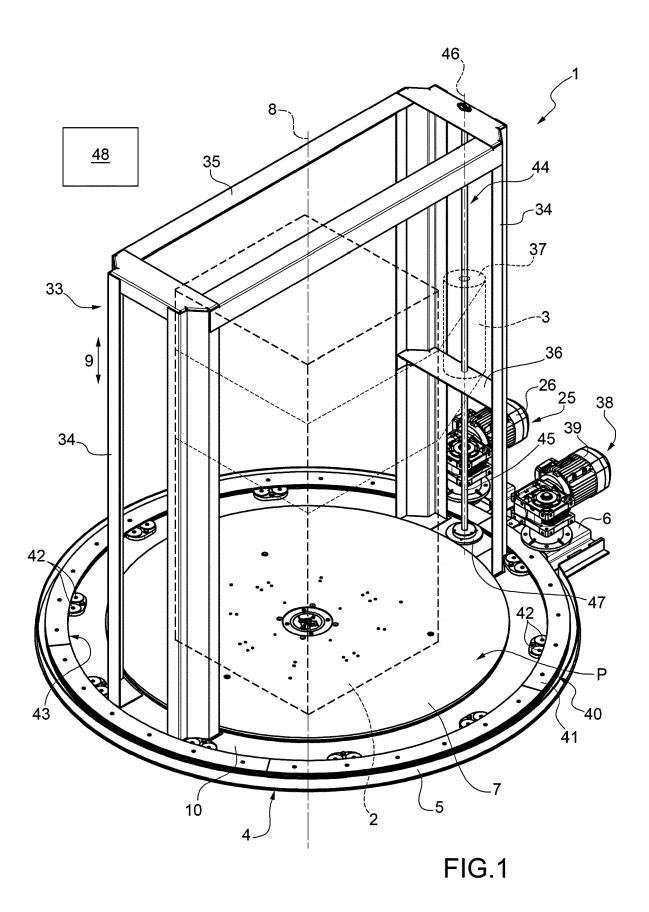
#### Claims

- 1. A wrapping machine with a rotary platform to wrap products (2) with at least one band of wrapping material (3); the wrapping machine comprising a base (4); a rotary platform (7), which defines a support surface (P) for at least one product (2) and is mounted on the base (4) so as to rotate around a rotation axis (8) that is substantially perpendicular to the support surface (P); a first upright (34), which is substantially parallel to the rotation axis (8); and a support slide (36), which is configured to receive and hold a spool (37) of the band of wrapping material (3) and is movable along the first upright (34); and being characterized in that the first upright (34) is mounted so as to rotate around the rotation axis (8) with a rotation direction that is contrary to a rotation direction of the rotary platform (7).
- 2. A wrapping machine according to claim 1 and further comprising a first operating motor (26) to move the rotary platform (7) and the first upright (34) around the rotation axis (8) and a first transmission device (28) to transmit the rotation motion between the rotary platform (7) and the first upright (34).
- 3. A wrapping machine according to claim 2, wherein the first operating motor (26) is coupled to the first upright (34) and the first transmission device (28) is configured to transmit the rotation motion from the first upright (34) to the rotary platform (7).
- 4. A wrapping machine according to claim 2 or 3 and further comprising a feeding disc (10), which is mounted so as to rotate around the rotation axis (8) and is provided with a first crown wheel (27) coupled to a first gear operated by the first operating motor (26); the first upright (34) being carried by the feeding disc (10).
- **5.** A wrapping machine according to claim 4, wherein the first transmission device (28) comprises a sec-

- ond crown wheel (29) obtained on the feeding disc (10), a third crown wheel (30) obtained on the rotary platform (7) within the second crown wheel (29), and a plurality of second gears (31) interposed between said second and third crown wheels (29, 30).
- 6. A wrapping machine according to claim 4 or 5 and further comprising a first roller cage (14) comprising an annular first support plate (20) mounted between the feeding disc (10) and the rotary platform (7) and a plurality of first support rollers (23) coupled to the first support plate (20) in a rotary manner and arranged in contact with the feeding disc (10) and with the rotary platform (7).
- 7. A wrapping machine according to any one of the claims from 4 to 6 and further comprising a second roller cage (13) comprising a second annular support plate (15) mounted between the base (4) and the feeding disc (10) and a plurality of second support rollers (18) coupled to the second support plate (15) in a rotary manner and arranged in contact with the base (4) and with the feeding disc (10).
- 25 8. A wrapping machine according to any one of the preceding claims and further comprising a second operating motor (39) and a second transmission device (44) to connect the second operating motor (39) and the support slide (36) and to move the support slide
  30 (36) along the first upright (34) .
  - 9. A wrapping machine according to claim 8, wherein the second operating motor (39) is integral to the base (4) and the second transmission device (44) is mechanical.
  - 10. A wrapping machine according to claim 8 or 9, wherein the second transmission device (44) comprises a transmission ring (41), which is coupled to the base (4) in a rotary manner so as to rotate around the rotation axis (8), is provided with a fourth crown wheel (40) coupled to a third gear operated by the second operating motor (39), and is further provided with a fifth crown wheel (43), which is coaxial to the rotation axis (8); and a transmission screw (45), which is coupled to the first upright (34) in a rotary manner so as to rotate around a further rotation axis (46) parallel to the rotation axis (8), and is further coupled to the fifth crown wheel (43) through the interposition of a fourth gear (47), which is integral to the transmission screw (45).
  - **11.** A wrapping machine according to claim 10, wherein the support slide (36) and the transmission screw (45) are coupled to one another through a screw-nut screw mechanism.
  - 12. A wrapping machine according to claim 10 or 11,

when they depend on any one of the claims from 2 to 7, and further comprising an electronic control unit (48), which is configured to selectively control said first and second operating motors (26, 39) so as to move the first upright (34) and the transmission ring (41) around the rotation axis (8) with the same rotation speed or with different rotation speeds.

13. A wrapping machine according to any one of the preceding claims, wherein the first upright (34) defines part of a gantry (33) further comprising a second upright (34), which is substantially parallel to the rotation axis (8) and diametrically opposite the first upright (34) relative to the first rotation axis (8), and a cross member (35) connecting the free ends of said first and second uprights (34) to one another.



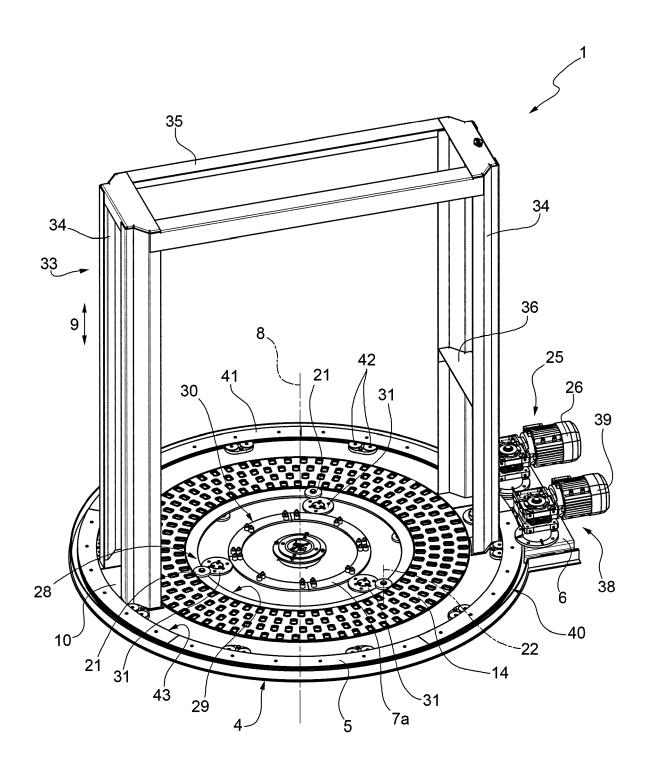


FIG.2

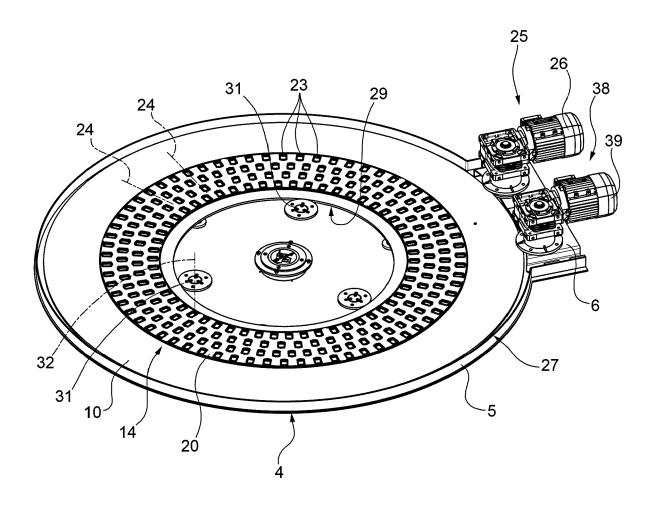


FIG.3

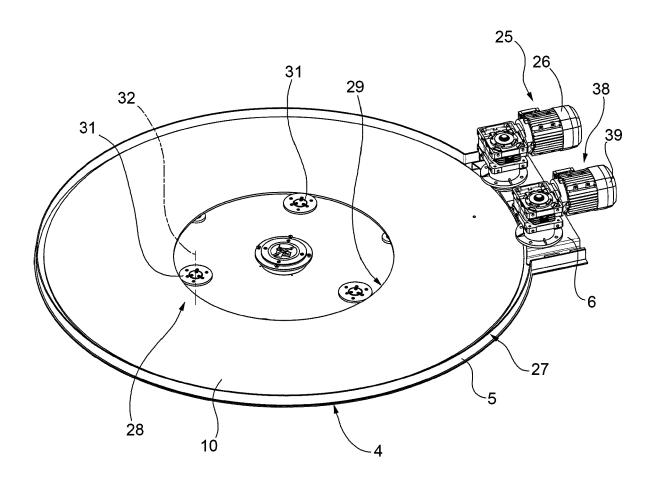


FIG.4

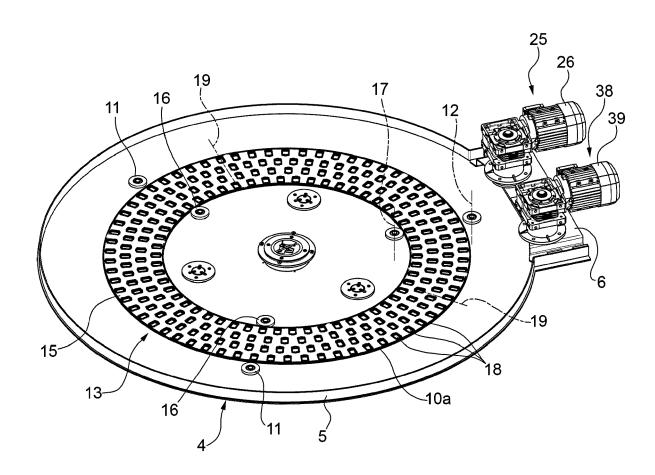
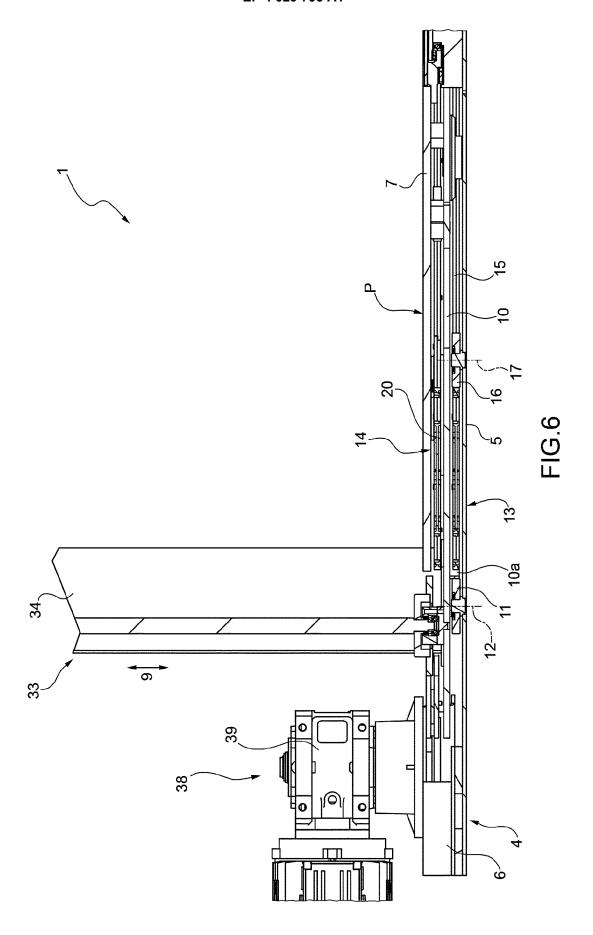


FIG.5





### **EUROPEAN SEARCH REPORT**

**Application Number** 

EP 22 16 1049

| Category             | Citation of document with indication of relevant passages   | n, where appropriate,  | Relevant<br>to claim   | CLASSIFICATION OF THE APPLICATION (IPC) |
|----------------------|---|--|--|---|
| x                    | EP 0 559 994 A1 (ROBOPA)<br>15 September 1993 (1993-  |  | 1-4,8  | INV.<br>B65B11/04                       |
| A                    | * column 3, lines 9-11;   | •  | 5-7,9-12   | •                                       |
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| A                    | EP 0 399 046 A1 (MATSUM0<br>28 November 1990 (1990-1<br>* page 9, lines 8-10; f:  | 11-28)<br>igure 3 *  | 9–12   |   |
| A                    | EP 0 279 871 A1 (CYKLOP<br>31 August 1988 (1988-08-<br>* column 5, lines 52-56  | AG [DE])<br>-31)   | 9–12   |   |
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| х                    | DE 603 11 819 T2 (ITW M3 31 October 2007 (2007-10 * paragraph [0036]; figu  | )–31)  | 1  |   |
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|                      |   |  |  |   |
| ,                    | The present search report has been dra  | awn up for all claims  |  |   |
| Place of search      |   | Date of completion of the search  2 June 2022  | Car  | Examiner  lati, Timea                   |
| X : part<br>Y : part | ATEGORY OF CITED DOCUMENTS  iccularly relevant if taken alone icularly relevant if combined with another ument of the same category | T: theory or principle E: earlier patent doc after the filing date D: document cited in L: document cited in | e underlying the in<br>ument, but publis<br>e<br>n the application<br>or other reasons | nvention                                |
| A . +a=1             | nnological background   |  |  |   |



**Application Number** 

EP 22 16 1049

| CLAIMS INCURRING FEES |  |  |  |  |  |
|-----------------------|--|--|--|--|--|
|                       | The present European patent application comprised at the time of filing claims for which payment was due.  |  |  |  |  |
| 10                    | Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for those claims for which no payment was due and for those claims for which claims fees have been paid, namely claim(s):                                |  |  |  |  |
| 15                    | No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for those claims for which no payment was due.  |  |  |  |  |
| 20                    | LACK OF UNITY OF INVENTION   |  |  |  |  |
|                       | The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:  |  |  |  |  |
| 25                    |  |  |  |  |  |
|                       | see sheet B  |  |  |  |  |
| 30                    |  |  |  |  |  |
|                       | All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.   |  |  |  |  |
| 35                    | As all searchable claims could be searched without effort justifying an additional fee, the Search Division did not invite payment of any additional fee.  |  |  |  |  |
| 40                    | Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims: |  |  |  |  |
| <b>45</b>             | None of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention  |  |  |  |  |
| 50                    | first mentioned in the claims, namely claims:  |  |  |  |  |
| 55                    | The present supplementary European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims (Rule 164 (1) EPC).  |  |  |  |  |



# LACK OF UNITY OF INVENTION SHEET B

**Application Number** 

EP 22 16 1049

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The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

1. claims: 1-13

A wrapping machine according to claim 1 with a first motor and transmission for driving the platform and the vertical upright in rotation according to claim 2.

1.1. claims: 8-12

A wrapping machine according to claim 1 with a second motor and transmission for driving the spool vertically according to claim 8

1.2. claim: 13

A wrapping machine according to claim 1 with two vertical uprights according to claim 13.

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Please note that all inventions mentioned under item 1, although not necessarily linked by a common inventive concept, could be searched without effort justifying an additional fee.

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#### ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.

EP 22 16 1049

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This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

02-06-2022

| 10 |            |        | Patent document ed in search report |           | Publication date |                            | Patent family member(s)  |                           | Publication date   |
|----|------------|--------|-------------------------------------|-----------|------------------|----------------------------|--|---------------------------|--|
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|    |            |        |                                     |           |                  | us<br>                     | 2003230056   | A1<br>                    | 18-12-2003<br>   |
| 45 |            |        |                                     |           |                  |                            |  |                           |  |
| 50 |            |        |                                     |           |                  |                            |  |                           |  |
| 55 | FORM P0459 |        |                                     |           |                  |                            |  |                           |  |

For more details about this annex : see Official Journal of the European Patent Office, No. 12/82

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#### REFERENCES CITED IN THE DESCRIPTION

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