FORM 2

THE PATENTS ACT, 1970
(39 of 1970)
AND
THE PATENTS RULES, 2003

COMPLETE SPECIFICATION

(See Section 10; rule 13)

TITLE OF THE INVENTION

"A FILLING MACHINE"

APPLICANT

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The following specification particularly describes
the invention and the manner in which
it is to be performed

CLAIMS

1. A multitrack filling machine (1) adapted to obtain closed bags (50) from a plurality of packing ribbons (51), each of said packing ribbons (51) defining a longitudinal direction (52) and a transverse direction (53) perpendicular to said longitudinal direction (52), said packing machine (1) comprising a plurality of sacking stations (3), each including: forming means (4) for said packing ribbon (51) adapted to fold a transverse portion of one of said packing ribbons (51) along a longitudinal direction (52), in a manner adapted to superpose two longitudinal flaps (54) of said transverse portion of said packing ribbon (51), sealing means (5) adapted to seal said two superposed longitudinal flaps (54) and seal said packing ribbon (51) in the transverse direction (53), at given space intervals, filling means (6) to fill an open bag formed with said packing ribbon (51) longitudinally and transversely sealed, in such a manner that said transverse seal constitutes the bottom of said open bag, cutting means (7) to cut said packing ribbon (51) at said seal in the transverse direction, in such a manner that said seal in the transverse direction constitutes the bottom of said open bag and the head closure of the one closed bag (50) obtained in the previous space interval of packing ribbon (51), said filling machine (1) further comprising conveying means (2) for said plurality of packing ribbons (51) adapted to convey said packing ribbons (51) along an unrolling trajectory and an advancing or feeding direction in a manner adapted to supply each of said packing stations (3) with one of said packing ribbons (51), **characterised in that** each of said sacking stations (3) comprises driving means (8) for said packing ribbon (51) separated from said sealing means (5) and including a high-friction dragging surface (16) adapted to interact by contact with said

ribbon (51) and drive it in the advancing direction.

2. A machine as claimed in claim 1, wherein said driving means (8) comprises crawler tracks (17) defining said dragging surface (16).

3. A machine as claimed in claim 2, wherein said driving means (8) comprises opposite crawler tracks (17).

4. A machine as claimed in one or more of the preceding claims, wherein said forming device (4) comprises a forming tube (13) and is adapted to wrap said packing ribbon (51) around said forming tube (13), and wherein said dragging surfaces (16) are provided at said forming tube (13).

5. A machine as claimed in one or more of the preceding claims, wherein said dragging surface (16) is made of elastomer.

6. A machine as claimed in one or more of the preceding claims, wherein said driving means (8) of said different sacking stations (3) is adjustable in an independent manner.

7. A machine as claimed in one or more of the preceding claims, comprising tension sensors (19) for the individual ribbons (51), adapted to measure the tension of said individual ribbons (51).

8. A machine as claimed in one or more of the preceding claims, wherein said conveying means (2) comprises a deviation unit (10) adapted to deviate said packing ribbons (51) through a right angle.

9. A machine as claimed in one or more of the preceding claims, wherein said conveying means (2) comprises pulling rollers (9e) upstream of said sacking stations (3), in timed relationship with said driving means (8) and adapted to drag said packing ribbons (51) along.

10. A machine as claimed in one or more of the preceding claims,

comprising tensioning rollers (11) placed in the vicinity of said stations (3) and provided with an outer surface of high friction.

Dated this 27 day of June 2014

(Arindam Paul)
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