

Title (en)
DEVICE FOR THE AUTOMATIC PACKAGING OF A CRATE WITH OBJECTS IN A LYING POSITION

Publication
EP 0093645 B1 19851211 (FR)

Application
EP 83400815 A 19830426

Priority
FR 8207674 A 19820503

Abstract (en)
[origin: EP0093645A1] 1. Device for introducing objects into a packing case, open at least one end, and placed on a conveyor (16), the opening or openings which it forms being orientated transversally to the direction of transport comprising pusher devices (29, 31), designed to introduce each set of objects into the case, the said device being characterized by the fact that it comprises, on the side corresponding to at least one open end of the case, a tilting equipment comprising a support (20, 90), on which a group of objects (10) can be deposited in an upright position, according to an arrangement similar to that which would be adopted for them inside the case, and retaining means (22, 23, 92, 94, 98, 106, 108), designed to immobilize the objects on the support during the movement of the tilting equipment, this latter being caused to perform a reciprocal movement perpendicular to the transport direction F, and being tilted on each travel stroke by guiding means comprising a fixed cam (30) of a substantially sinusoidal profile (34) inclined downwards as an when it approaches the case (12) and being connected tangentially by its ends to two horizontal rectilinear portions (32, 36), the said cam being positioned horizontally and parallel to the axis of the tunnel defined by the open case, so that when the tilting equipment moves from its retracted position towards the case the portion with a sinusoidal profile causes the said equipment to pivot through 90 degrees, whereby the objects (10) are moved into a lying position and into the axis of the spaces which they will occupy in the case, respectively.

IPC 1-7
B65B 21/02; **B65B 21/18**

IPC 8 full level
B65B 21/02 (2006.01); **B65B 21/18** (2006.01)

CPC (source: EP)
B65B 21/02 (2013.01); **B65B 21/18** (2013.01)

Cited by
GB2176163A; US4951338A; GB2218080A; GB2218080B; CN106143998A; CN116552931A

Designated contracting state (EPC)
AT BE CH DE FR GB IT LI LU NL SE

DOCDB simple family (publication)
EP 0093645 A1 19831109; **EP 0093645 B1 19851211**; AT E16915 T1 19851215; DE 3361474 D1 19860123; ES 522044 A0 19840201; ES 8402536 A1 19840201; FR 2525987 A1 19831104; FR 2525987 B1 19840810; PT 76626 A 19830601; PT 76626 B 19860127

DOCDB simple family (application)
EP 83400815 A 19830426; AT 83400815 T 19830426; DE 3361474 T 19830426; ES 522044 A 19830503; FR 8207674 A 19820503; PT 7662683 A 19830502