

Title (en)

High speed stacking and packaging apparatus.

Title (de)

Hochgeschwindigkeitsstapel- und -verpackungsapparat.

Title (fr)

Appareil d'empilement et d'emballage à grande vitesse.

Publication

EP 0160825 A1 19851113 (EN)

Application

EP 85103662 A 19850327

Priority

US 59943184 A 19840412

Abstract (en)

A product (4) stacking apparatus for high speed packing of packaged units which includes an infeed conveyor means (2), a vertically movable product elevator (4) immediately adjacent the infeed conveyor means, a product stacking means for periodically transferring product units from the infeed conveyor to the elevator and an elevator moving means for moving the elevator downwardly between the transfer operation of the product stacking means to stack the product units in a predetermined number of layers and returning the elevator upwardly when the stack is pushed from the elevator. A second conveyor is positioned adjacent to the elevator at a height such that the surface of the second conveyor is essentially coplanar with the elevator when it is in the fully descended position. A pusher means (30) is also used in the present apparatus for sliding the stacked layers of product units from the elevator onto the second conveyor. The pusher means includes spaced product engaging members which move between the spaced vertical product supporting members of the elevator and a pusher actuating means for extending and retracting the pusher means.

IPC 1-7

B65B 35/50

IPC 8 full level

B65B 35/50 (2006.01)

CPC (source: EP)

B65B 35/50 (2013.01)

Citation (search report)

- [X] US 3119213 A 19640128 - WILLIAM KINNEY ALFRED
- [Y] DE 1810954 A1 19700716 - THURINGIA VEREINIGTE FEINKERAM
- [Y] US 2414059 A 19470107 - POWERS LEWIS J
- [Y] US 2883074 A 19590421 - WILHELM BOEHL, et al

Cited by

BE1002612A3; CN103754437A; CN102020030A; GB2200335A; US4854111A; WO9611139A1

Designated contracting state (EPC)

AT BE CH DE FR GB IT LI LU NL SE

DOCDB simple family (publication)

EP 0160825 A1 19851113; EP 0160825 B1 19880309; AT E32861 T1 19880315; CA 1241675 A 19880906; DE 3561798 D1 19880414

DOCDB simple family (application)

EP 85103662 A 19850327; AT 85103662 T 19850327; CA 477670 A 19850327; DE 3561798 T 19850327