

Title (en)

Method for extracting intermediate flat supports for stacks of products

Title (de)

Verfahren zum Herausziehen von dazwischenliegenden flachen Trägern für Produktstapel

Title (fr)

Procédé pour extraire des supports plats intermédiaires pour des piles de produits

Publication

EP 0744363 A3 19971105 (EN)

Application

EP 96107483 A 19960510

Priority

IT BO950236 A 19950518

Abstract (en)

[origin: EP0744363A2] A method for extracting intermediate flat supports (2) of stacks (3) of products wherein a grip element (14) is placed above a flat support (2) to be extracted and presser means (17), carried by the grip element (14), are activated so as to act on the stacks (3) that lie below the flat support (2), with the flat support (2) being interposed; the flat support (2) is then lifted, at its peripheral region, by virtue of a plurality of suckers (16) carried by the grip element (14) and capable of retaining the flat support (2) when the pressers (17) are deactivated; and finally, the grip element (14) is placed at a container (7) for collecting the extracted flat support (2). <IMAGE>

IPC 1-7

B65H 3/08

IPC 8 full level

B65H 3/08 (2006.01)

CPC (source: EP)

B65H 3/0816 (2013.01)

Citation (search report)

- [X] WO 9004558 A1 19900503 - CIMCORP OY [FI]
- [X] EP 0486719 A1 19920527 - ALUMINUM CO OF AMERICA [US]
- [A] EP 0437760 A2 19910724 - FOCKE & CO [DE]
- [X] PATENT ABSTRACTS OF JAPAN vol. 11, no. 25 (M - 556)<2472> 23 January 1987 (1987-01-23)
- [X] PATENT ABSTRACTS OF JAPAN vol. 9, no. 84 (M - 371)<1807> 13 April 1985 (1985-04-13)
- [X] PATENT ABSTRACTS OF JAPAN vol. 17, no. 324 (M - 1433) 21 June 1993 (1993-06-21)

Cited by

EP1415803A1; ITBO20120709A1; EP2492224A1; CN102649244A; ITPC20110005A1; US6964228B2; US6604704B2; WO2023144785A1

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