

Title (en)

Method and machine for closing a collapsible carton while moved by a continuous motion

Title (de)

Verfahren und Vorrichtung zum Schließen einer Faltschachtel während ihrer kontinuierlichen Förderung

Title (fr)

Procédé et dispositif pour fermer une boîte en carton pliante pendant son convoyage continu

Publication

EP 1717147 A1 20061102 (DE)

Application

EP 06008162 A 20060420

Priority

DE 102005019894 A 20050429

Abstract (en)

A box (2) to be closed includes a pair of sidewalls joined to closing flaps (17) via fold lines (16), and inserting flaps (19) joined to the closing flaps also via fold lines (18), where when closing the box, a thin tongue (38) arranged along the box conveying direction (4) guides the free edge of each inserting flap down into the box interior and into the inner surface of either box sidewall, and a tappet (45), slidingly cooperating with the tongue, runs at the speed identical to the conveying speed and tucks the inserting flaps into the box. An independent claim is also included for a device for closing a folding box.

IPC 8 full level

B65B 7/22 (2006.01); **B65B 49/10** (2006.01)

CPC (source: EP)

B65B 7/22 (2013.01); **B65B 49/10** (2013.01)

Citation (search report)

- [X] US 3071910 A 19630108 - WOELFER ROBERT O
- [X] US 6266948 B1 20010731 - SERRA FRANCO [IT]
- [X] US 2628466 A 19530217 - BROWN JAMES D
- [A] EP 0576404 A1 19931229 - AMRP HANDELS AG [CH]
- [A] EP 0978449 A1 20000209 - MARCHESINI GROUP SPA [IT]
- [A] US 2340835 A 19440201 - MALHIOT CLARENCE J
- [A] US 4035989 A 19770719 - SCHUSTER WILHELM

Cited by

EP3385175A1; CN105947256A; CN103935540A; CN102556388A; EP3299302A1; IT201600094659A1; CN111605755A; ITMO20110213A1; EP1873063A3; WO2020169095A1; WO2020169097A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK YU

DOCDB simple family (publication)

EP 1717147 A1 20061102; EP 1717147 B1 20080326; AT E390353 T1 20080415; DE 102005019894 A1 20061109; DE 102005019894 B4 20100708; DE 502006000506 D1 20080508

DOCDB simple family (application)

EP 06008162 A 20060420; AT 06008162 T 20060420; DE 102005019894 A 20050429; DE 502006000506 T 20060420