

Title (en)
BOX CLOSING SYSTEM AND PROCESS

Title (de)
SCHACHTELVERSCHLIESSSYSTEM UND -VERFAHREN

Title (fr)
SYSTÈME ET PROCÉDÉ DE FERMETURE DE BOÎTES

Publication
EP 3299302 A1 20180328 (EN)

Application
EP 17192336 A 20170921

Priority
IT 201600094659 A 20160921

Abstract (en)
The invention proposes a box closing system which comprises in the following order an entry guide system (6) to fold a closure panel (2) of a not yet closed box (4) towards the body of the box; a folding disc (9) to fold the closure flap (8) of the closure panel (2) and put it onto the body of the box; a guiding element (10) to space the closure flap (8) from the body of the box and to force it to form with respect to the remaining part of the closure panel (2) an angle smaller than 90°; an inserting roll (12) to push the closure flap (8) into the body of the box; a closing roll (16) to snap-in-close the box (4); and a transport system (20) to transport at least a box at least from the entry guide system (6) to the closing roll (16). The invention further relates to a relative box closing process which includes, in the given order, the following steps: raising or lowering of the closure panel (2) of an open box (4), such that the panel covers the opening of the box (4); folding of the closure flap (8) of said closure panel (2) of the box (4) such that the flap is put on the body of the box; spacing of said closure flap (8) from the body of the box and folding of the closure flap (8) with respect to the remaining part of the closure panel (2) in the direction of the body of the box such that the closure flap (8) and the remaining part of the closure panel of the box form an angle smaller than 90°; inserting said closure flap (8) insaid body of the box; and, finally, snap-in-closing of said box (4).

IPC 8 full level
B65B 7/22 (2006.01)

CPC (source: EP)
B31B 50/0042 (2017.07); **B31B 50/36** (2017.07); **B65B 7/22** (2013.01); **B65B 49/06** (2013.01)

Citation (search report)
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Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 3299302 A1 20180328; **EP 3299302 B1 20190522**; ES 2742881 T3 20200217; IT 201600094659 A1 20180321

DOCDB simple family (application)
EP 17192336 A 20170921; ES 17192336 T 20170921; IT 201600094659 A 20160921