

Title (en)
BOX MANUFACTURING DEVICE

Title (de)
KISTENHERSTELLUNGSVORRICHTUNG

Title (fr)
DISPOSITIF DE FABRICATION DE BOÎTE

Publication
EP 3098174 A4 20171108 (EN)

Application
EP 14878777 A 20141208

Priority
• JP 2014007823 A 20140120
• JP 2014082449 W 20141208

Abstract (en)
[origin: EP3098174A1] A box forming apparatus (10) that opens a flattened cardboard box (FB) to form a tubular cardboard box (TB) is equipped with a holding mechanism (40), a moving mechanism (45), and a control device (92), wherein the holding mechanism (40) has holding members (42b, 42a) that hold a first side panel (C11) and a second side panel (C12), the moving mechanism (45) moves front face lower holding members and front face upper holding members, the control device (92) controls the moving mechanism (45) so as to fold at least either one of the first side panel (C11) and the second side panel (C12) along a first fold portion (FP1) to thereby change the angle formed by the first side panel and the second side panel from 0° or 180° to an angle close to 90°, the holding mechanism (40) further has a position adjusting member (50), and when the holding members (42b, 42a) are moved by the moving mechanism (45) to open the flattened cardboard box, the position adjusting member (50), which adjusts the position of a first flap (C31) connected to the first side panel, adjusts the position of the first flap (C31) in such a way that the first flap (C31) connected to the first side panel (C11) is placed in a state in which it extends along the direction in which the first side panel (C11) extends or a state in which it is folded inward in a state the flattened cardboard box being opened.

IPC 8 full level
B65B 43/26 (2006.01); **B31B 50/52** (2017.01); **B31B 50/585** (2017.01)

CPC (source: EP US)
B31B 50/52 (2017.07 - EP US); **B31B 50/585** (2017.07 - EP US); **B31B 50/76** (2017.07 - US); **B65B 43/265** (2013.01 - EP US); **B65B 43/365** (2013.01 - US); **B31B 2100/0022** (2017.07 - EP US); **B31B 2110/30** (2017.07 - EP US); **B31B 2120/30** (2017.07 - EP US)

Citation (search report)
• [AD] WO 2011119563 A2 20110929 - DOUGLAS MACHINE INC [US], et al
• See references of WO 2015107798A1

Cited by
BE1025786B1; CN113306786A

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

DOCDB simple family (publication)
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EP 14878777 A 20141208; JP 2014082449 W 20141208; JP 2015557733 A 20141208; US 201415111329 A 20141208