

Title (en)
DEVICE FOR DISPENSING PLASTIC FASTENERS

Title (de)
VORRICHTUNG ZUR AUSGABE VON KUNSTSTOFFBEFESTIGUNGSELEMENTEN

Title (fr)
DISPOSITIF DE DISTRIBUTION D'ATTACHES EN PLASTIQUE

Publication
EP 2786364 A1 20141008 (EN)

Application
EP 11793625 A 20111128

Priority
US 2011062187 W 20111128

Abstract (en)
[origin: WO2013081573A1] Fastener stock (111) and a device (211) for dispensing a plastic fastener (118) from a supply of ladder-type fastener stock (111) includes a pair of separate modules that are independently pneumatically powered by a common air source. Each module is adapted to receive and index a corresponding side rail (113, 115) of the fastener stock, separate a cross-bar (119, 121) therefrom and eject the separated crossbar out through a sharpened needle (243). As a feature of the invention, the pair of modules ejects the cross-bars of the dispensed fastener in an offset relationship to minimize fastener stress. As another feature of the invention, the pair of modules is independently slidably coupled to a common mounting plate (215). In this manner, the spacing and angular orientation between the modules are adjustable. As another feature of the invention, the feed mechanism (247) includes a feed pawl (331) that selectively engages outwardly facing notches (125) formed in the side rail (113, 115) to ensure accurate alignment prior to the severing process.

IPC 8 full level
G09F 3/14 (2006.01); **B65C 7/00** (2006.01)

CPC (source: EP)
B65C 7/00 (2013.01); **B65C 7/008** (2013.01); **G09F 3/14** (2013.01)

Citation (search report)
See references of WO 2013081573A1

Cited by
US11465795B2; US11161642B2; US10510273B2

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)
WO 2013081573 A1 20130606; BR 112014012483 A2 20170606; BR 112014012483 B1 20201103; CN 103999139 A 20140820; CN 103999139 B 20180424; EP 2786364 A1 20141008; EP 2786364 B1 20170621; JP 2014534479 A 20141218; JP 6166733 B2 20170719; KR 101843804 B1 20180330; KR 20140099909 A 20140813

DOCDB simple family (application)
US 2011062187 W 20111128; BR 112014012483 A 20111128; CN 201180075100 A 20111128; EP 11793625 A 20111128; JP 2014543462 A 20111128; KR 20147016930 A 20111128