

Title (en)  
SORTING DEVICE AND METHOD WITH GRIPPER

Title (de)  
SORTIERANLAGE UND SORTIERVERFAHREN MIT EINEM GREIFWERKZEUG

Title (fr)  
DISPOSITIF ET PROCÉDÉ DE TRI AVEC GRIFFE

Publication  
**EP 2718029 B1 20150304 (DE)**

Application  
**EP 12742842 A 20120723**

Priority  
• DE 102011080137 A 20110729  
• EP 2012064374 W 20120723

Abstract (en)  
[origin: WO2013017449A1] The invention relates to a sorting installation and a sorting method using a gripping tool for gripping sorted articles, particularly sorted flat mail items. During sorting, the articles are transported in holding apparatuses (Sp.1, Sp.2,...) having two lateral faces each. Each lateral face preferably contains one cutout. A supply station puts each article into one holding apparatus (Sp.1, Sp.2,...), with the result that the article is situated between the lateral faces and is held by the holding apparatuses (Sp.1, Sp.2,...). A transport apparatus transports the articles to a removal station and produces a sequence of holding apparatuses (Sp.1, Sp.2,...) with held articles. The removal station comprises a gripping tool with at least two gripper arms in a gripper arm sequence. These gripper arms (Gf.a1, Gf.a2, Gf.i1, Gf.i2) grip between filled holding apparatuses (Sp.1, Sp.2,...) and draw a plurality of held articles from these holding apparatuses simultaneously.

IPC 8 full level  
**B07C 3/02** (2006.01); **B65H 5/14** (2006.01)

CPC (source: EP US)  
**B07C 3/02** (2013.01 - EP US); **B07C 5/00** (2013.01 - US); **B65H 5/04** (2013.01 - EP US); **B65H 5/10** (2013.01 - EP US);  
**B65H 2301/44716** (2013.01 - EP US); **B65H 2701/1916** (2013.01 - EP US)

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)  
**DE 102011080137 A1 20130131**; EP 2718029 A1 20140416; EP 2718029 B1 20150304; US 2014166550 A1 20140619;  
US 8955688 B2 20150217; WO 2013017449 A1 20130207

DOCDB simple family (application)  
**DE 102011080137 A 20110729**; EP 12742842 A 20120723; EP 2012064374 W 20120723; US 201214235921 A 20120723