

Title (en)  
APPARATUS FOR THE INDIVIDUAL APPLICATION OF DEPOSITS OF CONNECTING MATERIAL

Title (de)  
VORRICHTUNG ZUR VEREINZELTEN APPLIKATION VON VERBINDUNGSMATERIALDEPOTS

Title (fr)  
DISPOSITIF D'APPLICATION INDIVIDUELLE DE DÉPÔTS DE MATÉRIAU D'ASSEMBLAGE

Publication  
**EP 3057732 A1 20160824 (DE)**

Application  
**EP 14742161 A 20140703**

Priority  
• DE 102013017159 A 20131016  
• EP 2014064164 W 20140703

Abstract (en)  
[origin: WO2015055328A1] The invention relates to an apparatus (10) for the individual application of deposits of soldering material, in particular solder balls, comprising a feeding device for the individual feeding of the deposits of soldering material from a soldering material reservoir to an application device (33), wherein the feeding device has transporting receptacles formed as through-holes, which can in each case be moved from a receiving position P1, in which a deposit of soldering material is received from the soldering material reservoir, into a transfer position P2, in which the deposit of soldering material is subjected to compressed gas and from which the deposit of soldering material is transferred to the application device, into an application position P3, wherein a removal device (46) for removing a deposit of soldering material from a transporting receptacle arranged in a removal position P4 is arranged downstream of the transfer position in the feeding direction, wherein, for initiating the removing function, the removal device is connected to a detector device, which checks the state of the transporting receptacle in the transfer position.

IPC 8 full level  
**B23K 1/005** (2006.01); **B23K 3/06** (2006.01)

CPC (source: EP KR US)  
**B23K 1/0008** (2013.01 - KR); **B23K 1/0056** (2013.01 - EP KR US); **B23K 1/018** (2013.01 - US); **B23K 3/04** (2013.01 - US); **B23K 3/0607** (2013.01 - KR); **B23K 3/0623** (2013.01 - EP KR US); **B23K 3/08** (2013.01 - KR)

Citation (search report)  
See references of WO 2015055328A1

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)  
**DE 102013017159 B3 20141224**; EP 3057732 A1 20160824; JP 2016533268 A 20161027; JP 6364072 B2 20180725; KR 101841857 B1 20180323; KR 20160068756 A 20160615; TW 201524654 A 20150701; TW I600490 B 20171001; US 10286470 B2 20190514; US 2016250704 A1 20160901; WO 2015055328 A1 20150423

DOCDB simple family (application)  
**DE 102013017159 A 20131016**; EP 14742161 A 20140703; EP 2014064164 W 20140703; JP 2016517394 A 20140703; KR 20167008501 A 20140703; TW 103128007 A 20140815; US 201415027611 A 20140703