

Title (en)  
METHOD FOR PRODUCING A CLUTCH PACK FORMED BY CLUTCH PLATES ARRANGED ON TOP OF ONE ANOTHER, AND DEVICE FOR CARRYING OUT A METHOD OF THIS TYPE

Title (de)  
VERFAHREN ZUR HERSTELLUNG EINES AUS AUFEINANDER LIEGENDEN LAMELLEN BESTEHENDEN LAMELLENPAKETES SOWIE VORRICHTUNG ZUR DURCHFÜHRUNG EINES SOLCHEN VERFAHRENS

Title (fr)  
PROCÉDÉ DE FABRICATION D'UN PAQUET DE LAMELLES CONSTITUÉ DE LAMELLES SITUÉES LES UNES SUR LES AUTRES ET DISPOSITIF PERMETTANT DE METTRE EN UVRE UN PROCÉDÉ DE CE TYPE

Publication  
**EP 3383577 A1 20181010 (DE)**

Application  
**EP 16819433 A 20161130**

Priority  
• DE 102015015762 A 20151201  
• EP 2016002019 W 20161130

Abstract (en)  
[origin: CA3006382A1] To produce a clutch pack, clutch plates are cut from an electrical steel strip or sheet, arranged on top of one another to form the clutch pack and connected to one another within the clutch pack. The material of the clutch plates is locally plasticised in the edge region via the generation of frictional heat by means of at least one tool, in such a way that the material of at least adjacent clutch plates is mixed with the tool such that, after the plasticised material has cooled, these clutch plates are integrally connected to one another. The device used for this purpose has at least one punch press and/or at least one receiving means for one or more clutch packs. In addition, the device has at least one welding tool that is rotatably driven about its axis and can be moved in a transverse direction to its rotational axis.

IPC 8 full level  
**B23P 15/00** (2006.01); **B23K 20/12** (2006.01); **B23P 23/00** (2006.01); **H01F 41/02** (2006.01); **H02K 15/00** (2006.01); **H02K 15/02** (2006.01)

CPC (source: EP US)  
**B21D 28/22** (2013.01 - EP US); **B23K 20/1265** (2013.01 - EP US); **B23K 20/129** (2013.01 - EP US); **B23K 20/2336** (2013.01 - EP US); **B23K 20/24** (2013.01 - EP US); **B23K 20/26** (2013.01 - EP US); **B23K 28/02** (2013.01 - EP US); **B23P 15/00** (2013.01 - EP); **B23P 23/00** (2013.01 - EP US); **H01F 41/0233** (2013.01 - EP); **H02K 15/02** (2013.01 - EP US); **B23K 20/122** (2013.01 - US); **B23K 37/04** (2013.01 - US); **B23K 2101/18** (2018.07 - EP US); **B23K 2103/10** (2018.07 - EP US); **B23P 2700/12** (2013.01 - EP)

Citation (search report)  
See references of WO 2017092866A1

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DOCDB simple family (publication)  
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**DE 102015015762 A 20151201**; BR 112018008834 A 20161130; CA 3006382 A 20161130; CN 201680070200 A 20161130; EP 16819433 A 20161130; EP 2016002019 W 20161130; JP 2018528684 A 20161130; MX 2018006620 A 20161130; US 201615780075 A 20161130; US 202117380101 A 20210720