

Title (en)  
RING ROLLING DEVICE

Title (de)  
RINGWALZVORRICHTUNG

Title (fr)  
DISPOSITIF POUR LE LAMINAGE DE BAGUES

Publication  
**EP 3110577 A1 20170104 (DE)**

Application  
**EP 14706598 A 20140225**

Priority  
EP 2014053655 W 20140225

Abstract (en)  
[origin: WO2015127964A1] The invention relates to a ring rolling device for enlarging a ring blank (9), comprising a drive roller (1) and a rotatable revolving drum (3), in which five mandrels (2) are rotatably mounted. Ring blanks (9) can be mounted around the mandrels (2). By rotating the revolving drum (3), the mandrels (2) move towards and away from the drive roller (1). The revolving drum (3) is arranged in relation to the drive roller (1), in such a way that, by rotating the revolving drum (3) a decreasing roll gap is formed between a mandrel (2) approaching the drive roller (1) and the drive roller (1), in which roll gap a ring blank (9) mounted around the mandrel (2) is rolled, during the rotating of the revolving drum (3). The revolving drum (3) has four rotatably mounted support rollers for rotatably mounting each mandrel (2), said support rollers supporting the mandrel (2) in the direction of the rotational axis (39) of the revolving drum, such that, during the rolling process, the mandrel (2) is located between the support rollers and the press element (1).

IPC 8 full level  
**B21H 1/06** (2006.01); **B21H 1/12** (2006.01)

CPC (source: EP KR US)  
**B21B 25/00** (2013.01 - US); **B21H 1/06** (2013.01 - EP KR US); **B21H 1/12** (2013.01 - EP KR US)

Citation (search report)  
See references of WO 2015127964A1

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)  
**WO 2015127964 A1 20150903**; CN 105980083 A 20160928; CN 105980083 B 20171205; EA 031166 B1 20181130; EA 201600611 A1 20161230; EP 3110577 A1 20170104; EP 3110577 B1 20180328; EP 3110577 B2 20210303; ES 2667421 T3 20180510; ES 2667421 T5 20211006; JP 2017506162 A 20170302; JP 6373412 B2 20180815; KR 101905287 B1 20181005; KR 20160125408 A 20161031; UA 114688 C2 20170710; US 10413963 B2 20190917; US 2017008066 A1 20170112

DOCDB simple family (application)  
**EP 2014053655 W 20140225**; CN 201480074399 A 20140225; EA 201600611 A 20140225; EP 14706598 A 20140225; ES 14706598 T 20140225; JP 2016570162 A 20140225; KR 20167024126 A 20140225; UA A201606657 A 20140225; US 201415119250 A 20140225