

Title (en)  
BENDING PISTON

Title (de)  
BIEGEKOLBEN

Title (fr)  
PISTON DE CINTRAGE

Publication  
**EP 3357597 B1 20220112 (EN)**

Application  
**EP 18154878 A 20180202**

Priority  
DK PA201770061 A 20170202

Abstract (en)  
[origin: EP3357597A1] Apparatus (20,30) for bending a metal blank (50) into a predetermined shape, said apparatus comprising a land (32) having a substantially planar surface (33) on which the blank to be bent is placed, where an aperture (34) is provided in said land (32), said aperture having (34) a size and shape allowing a bending piston (1) to move perpendicular and through said planar surface (33), said bending piston (1) being operated by a pressure plate (31), such that the pressure plate (31) can exert a pressure on the bending piston (1) thereby urging the piston (1) through the aperture (34), where the bending piston (1) engages the blank (50) to be bent, such that the blank (50) is deformed/bent along a first surface (37) on a counter land (35) positioned on the other side of the blank (50), the bending piston (1) having a longitudinal body (2) with a cylindrical cross-section, where in a first end of the body (2) a pressure plate engagement surface (9) is provided and in an opposite second end a blank forming section (4) is provided, where said blank forming section (4) is coupled to the body (2) by a tilting section (3).

IPC 8 full level  
**B21D 19/08** (2006.01); **B21D 5/04** (2006.01)

CPC (source: EP)  
**B21D 5/045** (2013.01); **B21D 19/08** (2013.01)

Cited by  
CN111659773A; CN11222241A

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)  
**EP 3357597 A1 20180808; EP 3357597 B1 20220112**; DK 3357597 T3 20220419; ES 2910939 T3 20220517; LT 3357597 T 20220310; PL 3357597 T3 20220606; PT 3357597 T 20220316

DOCDB simple family (application)  
**EP 18154878 A 20180202**; DK 18154878 T 20180202; ES 18154878 T 20180202; LT 18154878 T 20180202; PL 18154878 T 20180202; PT 18154878 T 20180202