

Title (en)
Press-forming method of component having L shape

Title (de)
Pressformverfahren und Komponente mit L-Form

Title (fr)
Procédé de formation de presse de composant en L

Publication
EP 2524740 A1 20121121 (EN)

Application
EP 11166738 A 20110519

Priority
EP 11166738 A 20110519

Abstract (en)
A forming method of a press component having an L shape for forming a component having a top sheet section and a vertical wall section, which is connected to the top sheet section with a bent section having a part curved in an arc shape and has a flange section on the opposite side to the bent section, the top sheet section being on the outside of the arc of the vertical wall section, from a blank metal sheet, includes: disposing the blank metal sheet between a die or a pad and a bending die; and in a state where the pad is caused to approach or come in contact with the blank metal sheet, forming the vertical wall section and the flange section while at least a part of the blank metal sheet is caused to slide on a part of the die corresponding to the top sheet section.

IPC 8 full level
B21D 5/06 (2006.01); **B21D 22/02** (2006.01); **B21D 22/22** (2006.01); **B21D 53/88** (2006.01)

CPC (source: EP)
B21D 22/22 (2013.01); **B21D 22/26** (2013.01)

Citation (applicant)
• JP 2003103306 A 20030408 - KOBE STEEL LTD
• JP 2004154859 A 20040603 - KOBE STEEL LTD
• JP 2006015404 A 20060119 - KOBE STEEL LTD
• JP 2008307557 A 20081225 - KOBE STEEL LTD

Citation (search report)
[X] DE 10318056 A1 20041111 - BENTELER AUTOMOBILTECHNIK GMBH [DE]

Cited by
CN105682820A; JP2016175089A; KR20160003795A; CN105307792A; JP2015110237A; JP2019202335A; US9914163B2; US9718262B2; WO2014199730A1; WO2019008880A1

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)
EP 2524740 A1 20121121

DOCDB simple family (application)
EP 11166738 A 20110519