

Title (en)
Method for punching and straightening sheet metal

Title (de)
Verfahren zum Stanzen und Richten von Blechen

Title (fr)
Procédé de poinçonnage et de dressage de tôles

Publication
EP 2532452 B1 20140312 (DE)

Application
EP 11169497 A 20110610

Priority
EP 11169497 A 20110610

Abstract (en)
[origin: EP2532452A1] The method involves accommodating a stamp complementary to a die (17) at a tool holder (30) of a punching machine (1). A metal sheet (15) is punched by imprinting a surface of the metal sheet with an end face of a stamp in a phase of a punching stroke for creating a bend in the metal sheet between the end face of the stamp and an adjacent edge of the die and by cutting the metal sheet with a rim of die end face in another phase of the punching stroke to form a cut edge of the metal sheet. Lateral force is applied to the cut edge of the metal sheet with a bevel. An independent claim is also included for a punching tool.

IPC 8 full level
B21D 28/34 (2006.01); **B21D 28/16** (2006.01); **B21D 28/24** (2006.01)

CPC (source: EP US)
B21D 28/16 (2013.01 - EP US); **B21D 28/24** (2013.01 - EP US); **B21D 28/343** (2013.01 - EP US)

Cited by
EP2923778A3; CN111570604A

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 2532452 A1 20121212; EP 2532452 B1 20140312; CN 102814382 A 20121212; CN 102814382 B 20160316; JP 2013000801 A 20130107; JP 5968091 B2 20160810; US 2012312064 A1 20121213; US 9266163 B2 20160223

DOCDB simple family (application)
EP 11169497 A 20110610; CN 201210185082 A 20120606; JP 2012131724 A 20120611; US 201213493506 A 20120611