

Title (en)

Method and device for hydromechanical deep drawing of metal sheet

Title (de)

Verfahren und Vorrichtung zum hydromechanischen Tiefziehen von Metallblech

Title (fr)

Méthode et dispositif pour l' emboutissage profond hydromécanique de tôles

Publication

EP 1095717 A3 20020102 (DE)

Application

EP 00122059 A 20001011

Priority

DE 19952105 A 19991029

Abstract (en)

[origin: EP1095717A2] For a hydromechanical deep drawing shaping action, on a metal sheet, a gas under pressure is applied to the sheet in the shaping direction to give an initial shaping action. A tool with the required contour gives the metal sheet the final shaping. The gas is fed in under pressure, from a gas supply connection (9), into the space (11) between the upper die (5) and the clamped metal sheet (10).

IPC 1-7

B21D 22/20

IPC 8 full level

B21D 22/20 (2006.01)

CPC (source: EP)

B21D 22/205 (2013.01)

Citation (search report)

- [YA] DE 19624036 A1 19971218 - KLEINER MATTHIAS PROF DR ING [DE]
- [XY] PATENT ABSTRACTS OF JAPAN vol. 008, no. 160 (M - 312) 25 July 1984 (1984-07-25)

Cited by

DE10305654B3; EP1447153A1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

EP 1095717 A2 20010502; EP 1095717 A3 20020102; DE 19952105 A1 20010628

DOCDB simple family (application)

EP 00122059 A 20001011; DE 19952105 A 19991029