

Title (en)

Hydroelastic deep drawing device

Title (de)

Hydroelastische Tiefzieheinrichtung

Title (fr)

Dispositif d'emboutissage profond hydroélastique

Publication

EP 1344585 B1 20080507 (DE)

Application

EP 03005517 A 20030311

Priority

DE 10210573 A 20020311

Abstract (en)

[origin: EP1344585A2] The deep drawing device has several force effect fields round one or more drawing punches (5), with each separate force effect field having a fixed integrated short-stroke cylinder system, consisting of a short-stroke cylinder (9) and a short-stroke piston (10), to which a spacer (11) is attached carrying one or more form bolts (15).

IPC 8 full level

B21D 24/08 (2006.01)

CPC (source: EP)

B21D 24/08 (2013.01)

Citation (examination)

DE 19641411 A1 19980409 - DIEFFENBACHER GMBH MASCHF [DE]

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)

EP 1344585 A2 20030917; EP 1344585 A3 20050727; EP 1344585 B1 20080507; AT E394179 T1 20080515; DE 10210573 A1 20031002; DE 50309758 D1 20080619; DK 1344585 T3 20080908; ES 2307843 T3 20081201

DOCDB simple family (application)

EP 03005517 A 20030311; AT 03005517 T 20030311; DE 10210573 A 20020311; DE 50309758 T 20030311; DK 03005517 T 20030311; ES 03005517 T 20030311