

Title (en)
DEEP-DRAWING TOOL WITH INTEGRAL HOLDING-DOWN DEVICE

Title (de)
TIEFZIEHWERKZEUG MIT INTEGRIERTEM NIEDERHALTER

Title (fr)
OUTIL D'EMBOUTISSAGE PROFOND A SERRE-FLAN INTEGRE

Publication
EP 0808224 B1 20001102 (DE)

Application
EP 96901787 A 19960206

Priority
• DE 19503874 A 19950207
• EP 9600485 W 19960206

Abstract (en)
[origin: US6354131B1] A deep-drawing tool where the holding-down device is incorporated into the punch, and the holding-down device consists of individual punches uniformly on the circumference, where the punches are designed as elastomers.

IPC 1-7
B21D 22/22; **B21D 24/04**

IPC 8 full level
B21D 22/22 (2006.01); **B21D 24/04** (2006.01)

CPC (source: EP US)
B21D 22/22 (2013.01 - EP US); **B21D 24/04** (2013.01 - EP US)

Cited by
FR3018709A1; WO2016166701A1

Designated contracting state (EPC)
AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)
US 6354131 B1 20020312; AT E197258 T1 20001115; AU 4622596 A 19960827; DE 19503874 A1 19960808; DE 59606093 D1 20001207; EP 0808224 A1 19971126; EP 0808224 B1 20001102; JP H11508490 A 19990727; WO 9624449 A1 19960815

DOCDB simple family (application)
US 87584199 A 19990419; AT 96901787 T 19960206; AU 4622596 A 19960206; DE 19503874 A 19950207; DE 59606093 T 19960206; EP 9600485 W 19960206; EP 96901787 A 19960206; JP 52397396 A 19960206