

Title (en)
TOOLING FOR FOLDING PRESS FOR AIR FOLDING.

Title (de)
WERKZEUG FÜR BIEGEPRESSE ZUM FREIBIEGEN.

Title (fr)
OUTILLAGE POUR PRESSE-PLIEUSE POUR PLIAGE EN L'AIR.

Publication
EP 0444169 B1 19940601

Application
EP 90912757 A 19900911

Priority
• CH 329789 A 19890911
• CH 9000216 W 19900911

Abstract (en)
[origin: WO9103332A1] The tooling is comprised of two half-dies (1, 1') arranged so as to slide on respective parts (12, 12') of the press table, on either side of the folding plane (23). The actuation device for closing the die includes two assemblies of pairs of inclined shims (9, 10; 9', 10'), each of the shims of one pair being fixed respectively one (9; 9') on the half-die and the other one (10; 10') on a traction member (11; 11') connected by an automatic drive device controlled by a programmable electronic device. The opening of the die is effected by the action of a spring steel blade (19) arranged in the bottom of the folding V.

IPC 1-7
B21D 5/02

IPC 8 full level
B21D 5/02 (2006.01)

CPC (source: EP US)
B21D 5/0209 (2013.01 - EP US); **B21D 5/0227** (2013.01 - EP US)

Citation (examination)
FR 2315334 A1 19770121 - HAEMMERLE AG MASCHF [CH]

Cited by
EP2674231A1; WO2012175224A3

Designated contracting state (EPC)
AT BE CH DE ES FR GB IT LI NL SE

DOCDB simple family (publication)
WO 9103332 A1 19910321; AT E106290 T1 19940615; CH 680772 A5 19921113; DE 69009446 D1 19940707; DE 69009446 T2 19950105; EP 0444169 A1 19910904; EP 0444169 B1 19940601; JP H04501537 A 19920319; US 5305659 A 19940426

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