

Title (en)

DEVICE FOR EJECTION OF MOULDED PIECES FROM A MOULDING TOOL

Title (de)

VORRICHTUNG ZUM AUSSTOSSEN VON UMFORMTEILEN AUS EINEM UMFORMWERKZEUG

Title (fr)

DISPOSITIF POUR EJECTER DES PIECES FACONNEES D'UN OUTIL DE FACONNAGE

Publication

EP 1446247 A1 20040818 (DE)

Application

EP 02774242 A 20021119

Priority

- CH 0200622 W 20021119
- CH 21562001 A 20011122

Abstract (en)

[origin: WO03043759A1] The invention relates to a so-called spring cushion (5), for the ejection of moulded pieces (4) from a moulding tool (3), with a plunger (6), moving in a guide tube (9) within the moulding tool and loaded in the ejection direction (14) by means of a spring (15). According to the invention, the spring (15) is embodied as a draw spring, in particular as a spiral draw spring. Considerably longer service life can be achieved as draw springs do not have radial deflections on loading.

IPC 1-7

B21D 45/02

IPC 8 full level

B21D 45/04 (2006.01); **B21D 45/02** (2006.01)

CPC (source: EP KR US)

B21D 45/02 (2013.01 - EP KR US)

Citation (search report)

See references of WO 03043759A1

Designated contracting state (EPC)

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

DOCDB simple family (publication)

WO 03043759 A1 20030530; AU 2002340702 A1 20030610; CN 1270843 C 20060823; CN 1585680 A 20050223; DE 50210394 D1 20070809; EP 1446247 A1 20040818; EP 1446247 B1 20070627; JP 2005509524 A 20050414; KR 20040066840 A 20040727; US 2004255636 A1 20041223; US 7254979 B2 20070814

DOCDB simple family (application)

CH 0200622 W 20021119; AU 2002340702 A 20021119; CN 02822579 A 20021119; DE 50210394 T 20021119; EP 02774242 A 20021119; JP 2003545426 A 20021119; KR 20047007815 A 20021119; US 49502604 A 20040510