

Title (en)
Toggle press

Title (de)
Kniehebelpresse

Title (fr)
Presse à genouillère

Publication
EP 1452301 B1 20130703 (DE)

Application
EP 04004209 A 20040225

Priority
DE 10309030 A 20030301

Abstract (en)
[origin: EP1452301A2] The toggle-joint press has two swing levers (14,16) linked together by a joint (18). The free end of the first lever is attached to a press tool (22), and the free end of the other lever is keyed to a rotating shaft (28) from a drive, on a section of the shaft shaped as an eccentric. The keyed fitting of the lever at the shaft can be released when the toggle lever is in the extended position. The keyed bond between the lever and the shaft is supported by a spring unit (30).

IPC 8 full level
B30B 1/10 (2006.01); **B30B 1/14** (2006.01); **B30B 1/26** (2006.01); **F16H 21/44** (2006.01)

CPC (source: EP US)
B30B 1/10 (2013.01 - EP US); **B30B 1/14** (2013.01 - EP US); **B30B 1/26** (2013.01 - EP US); **B30B 1/268** (2013.01 - EP US);
Y10T 74/18952 (2015.01 - EP US)

Citation (examination)
US 3222913 A 19651214 - OTTO LEOPOLD

Cited by
EP2218575A1; CN103603928A; CN109016617A

Designated contracting state (EPC)
ES FR GB IT

DOCDB simple family (publication)
EP 1452301 A2 20040901; **EP 1452301 A3 20090909**; **EP 1452301 B1 20130703**; DE 10309030 B3 20040916; ES 2427635 T3 20131031;
US 2004168502 A1 20040902; US 7011019 B2 20060314

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EP 04004209 A 20040225; DE 10309030 A 20030301; ES 04004209 T 20040225; US 77781004 A 20040212