

Title (en)

Tool holding device

Title (de)

Werkzeugaufnahmevorrichtung

Title (fr)

Dispositif de réception d'outil

Publication

EP 2422971 A3 20120711 (DE)

Application

EP 11173906 A 20110714

Priority

DE 102010036014 A 20100831

Abstract (en)

[origin: EP2422971A2] The apparatus has a bottom cross member (24) fastened to a right-handed frame wall (20) and a left-handed frame wall (21), and a top cross member (23) and a top drive shaft (28) fastened to side walls of a top tool holding device (2). The members have a profile for absorbing force transverse to, in and perpendicular to a blank running direction, where the force is produced during processing of a blank by an upper tool unit (33) and a lower tool unit (34). The tool units are laterally movable and slidable on the members over a bottom tool guide element (41) and a top tool guide element (40).

IPC 8 full level

B31B 50/25 (2017.01); **B31B 50/62** (2017.01); **B31B 50/88** (2017.01); **B44B 5/00** (2006.01)

CPC (source: EP US)

B31B 50/005 (2017.07 - EP US); **B44B 5/00** (2013.01 - EP US); **B31B 50/042** (2017.07 - EP US); **B31B 2100/00** (2017.07 - EP US); **B31B 2110/35** (2017.07 - EP US)

Citation (search report)

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Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 2422971 A2 20120229; EP 2422971 A3 20120711; EP 2422971 B1 20140326; CN 102380973 A 20120321; CN 102380973 B 20151202; DE 102011107527 A1 20120301; ES 2462591 T3 20140526; US 2012053034 A1 20120301; US 8926486 B2 20150106

DOCDB simple family (application)

EP 11173906 A 20110714; CN 201110226615 A 20110804; DE 102011107527 A 20110715; ES 11173906 T 20110714; US 201113213194 A 20110819