

Title (en)  
MACHINE TOOL

Title (de)  
WERKZEUGMASCHINE

Title (fr)  
MACHINE-OUTIL

Publication  
**EP 3092106 A1 20161116 (DE)**

Application  
**EP 15759825 A 20150911**

Priority  
• DE 202014007224 U 20140911  
• EP 2015070818 W 20150911

Abstract (en)  
[origin: WO2016038183A1] The invention relates to a machine tool (1) comprising a frame (2) with two opposite frame sections, a plurality of leg elements (9) on the frame, a first carriage (4) which has a first linear axis, is guided on the two opposite sections of the frame (2) and can slide in a direction X, a second carriage (5) which has a second linear axis, is guided on the first carriage (4) and can slide in a direction Y, a tower element (6) which has a third linear axis and is retained on the second carriage (5), a machining element (12) which is retained on the tower element (6) and can slide in a direction Z, and a tool spindle (13) on the machining element (12) for accommodating a tool (15); the frame has a monolithic frame element (2) which is made of a fiber-reinforced plastic, especially a carbon-fiber-reinforced plastic, and which comprises the two opposite frame sections.

IPC 8 full level  
**B23Q 1/01** (2006.01); **B23Q 1/62** (2006.01); **B23Q 9/00** (2006.01)

CPC (source: CN EP US)  
**B23C 1/20** (2013.01 - US); **B23Q 1/015** (2013.01 - CN EP US); **B23Q 1/626** (2013.01 - CN EP US); **B23Q 9/0014** (2013.01 - CN EP US); **B23Q 11/0046** (2013.01 - US); **B23Q 11/0071** (2013.01 - US); **B23Q 11/085** (2013.01 - US); **B23Q 17/2404** (2013.01 - US); **B23Q 17/2409** (2013.01 - US); **B23Q 17/2428** (2013.01 - US); **B23C 2230/08** (2013.01 - US); **B23C 2260/56** (2013.01 - US); **B23Q 9/0007** (2013.01 - US); **B23Q 9/0071** (2013.01 - US); **B23Q 11/0816** (2013.01 - US); **Y10T 409/304088** (2015.01 - EP US); **Y10T 409/306384** (2015.01 - EP US); **Y10T 409/309576** (2015.01 - EP US)

Citation (search report)  
See references of WO 2016038183A1

Citation (examination)  
US 2006291971 A1 20061228 - TANOUE SHINN [JP], et al

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)  
**DE 202014007224 U1 20151214**; CN 107000140 A 20170801; EP 3092106 A1 20161116; JP 2017530870 A 20171019; JP 6538828 B2 20190703; US 10464142 B2 20191105; US 2017259353 A1 20170914; WO 2016038183 A1 20160317

DOCDB simple family (application)  
**DE 202014007224 U 20140911**; CN 201580048786 A 20150911; EP 15759825 A 20150911; EP 2015070818 W 20150911; JP 2017513799 A 20150911; US 201515510622 A 20150911