

Title (en)
ROBOT ARM AND ASSEMBLY SET

Title (de)
ROBOTERARM UND MONTAGESET

Title (fr)
BRAS DE ROBOT ET KIT DE MONTAGE

Publication
EP 3122520 A1 20170201 (DE)

Application
EP 15711741 A 20150323

Priority

- DE 202014101342 U 20140324
- EP 2015056046 W 20150323

Abstract (en)
[origin: WO2015144613A1] The invention relates to a robot arm (1) having a modular structure and having directly driven arm joints (2). For simplification and easier assembly of the robot arm (1), it is proposed that the arm joints (2) each have a drive module (3) with a directly driven worm drive (31) for generating a torque that acts with respect to a rotation axis (a, a1, a2, a3, a4, a5) of the drive module (3), and a connection module (4), axially adjoining the drive module (3) with respect to the rotation axis (a), for transmitting the torque to an arm joint (2) that follows in the direction of a top-side end joint (21) of the robot arm (1) with respect to a drive sequence. The invention also relates to an assembly set (8) for the robot arm (1).

IPC 8 full level
B25J 9/08 (2006.01)

CPC (source: CN EP KR US)
B25J 9/042 (2013.01 - KR); **B25J 9/08** (2013.01 - CN EP KR US); **B25J 9/102** (2013.01 - CN EP KR US); **B25J 9/106** (2013.01 - KR); **B25J 9/12** (2013.01 - CN US); **B25J 9/126** (2013.01 - KR); **B25J 17/00** (2013.01 - US); **B25J 17/02** (2013.01 - CN); **B25J 18/00** (2013.01 - CN); **Y10S 901/19** (2013.01 - EP US); **Y10S 901/28** (2013.01 - EP US)

Citation (search report)
See references of WO 2015144613A1

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 202014101342 U1 20140409; CN 106132642 A 20161116; EP 3122520 A1 20170201; JP 2017508635 A 20170330; KR 20160136335 A 20161129; TW 201544276 A 20151201; US 2017100844 A1 20170413; WO 2015144613 A1 20151001

DOCDB simple family (application)
DE 202014101342 U 20140324; CN 201580015820 A 20150323; EP 15711741 A 20150323; EP 2015056046 W 20150323; JP 2016556931 A 20150323; KR 20167027314 A 20150323; TW 104108891 A 20150320; US 201515128665 A 20150323