

Title (en)  
ASSISTANCE ROBOT

Title (de)  
HILFSROBOTER

Title (fr)  
ROBOT D'ASSISTANCE

Publication  
**EP 3123995 A4 20180328 (EN)**

Application  
**EP 14887416 A 20140328**

Priority  
JP 2014059268 W 20140328

Abstract (en)  
[origin: EP3124002A1] An assistant robot in which a small-size actuator can be used is provided. One of a lifting and lowering section (40, 240, 340, or 440) and a holding section (50, 250, 350, or 450) includes guide paths (53, 253, 342, 343, and 451a) which guide the holding section (50, 250, 350, or 450) to move in a forward, backward, and inclined manner with respect to the lifting and lowering section (40, 240, 340, or 440). The other one includes a guided member (43, 243, 352, 353, 443, or 444) which moves along the guide path (53, 253, 342, 343, or 451a) .

IPC 8 full level  
**A61G 5/00** (2006.01); **A61G 5/14** (2006.01); **A61G 7/10** (2006.01); **A61H 3/04** (2006.01)

CPC (source: EP)  
**A61G 5/14** (2013.01); **A61G 7/1019** (2013.01); **A61G 7/1086** (2013.01); **A61H 3/04** (2013.01); **A61G 7/1046** (2013.01); **A61G 7/1092** (2013.01); **A61H 2003/043** (2013.01); **A61H 2003/046** (2013.01); **A61H 2201/5007** (2013.01); **A61H 2201/5028** (2013.01); **A61H 2201/5043** (2013.01); **A61H 2201/5061** (2013.01); **A61H 2201/5069** (2013.01)

Citation (search report)  
• [XY] WO 2013118623 A1 20130815 - FUJI MACHINE MFG [JP] & EP 2813203 A1 20141217 - FUJI MACHINE MFG [JP]  
• [E] EP 3050549 A1 20160803 - FUJI MACHINE MFG [JP]  
• [XY] JP 2011019571 A 20110203 - FUJI MACHINE MFG  
• [Y] US 4985947 A 19910122 - ETHRIDGE KENNETH L [US]  
• [Y] US 5061010 A 19911029 - LAPOINTE LARRY P [US]  
• [T] US 2007083990 A1 20070419 - WERSCHMIDT GARY S [US]  
• See also references of WO 2015145758A1

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

DOCDB simple family (publication)  
**EP 3124002 A1 20170201**; **EP 3124002 A4 20170315**; **EP 3124002 B1 20180926**; **EP 3124002 B8 20181128**; CN 106163479 A 20161123; CN 106163479 B 20181207; EP 3123995 A1 20170201; EP 3123995 A4 20180328; EP 3123995 B1 20240717; JP 6310060 B2 20180411; JP 6534991 B2 20190626; JP WO2015145758 A1 20170413; JP WO2015145915 A1 20170413; WO 2015145758 A1 20151001; WO 2015145915 A1 20151001

DOCDB simple family (application)  
**EP 14887502 A 20141226**; CN 201480077584 A 20140328; EP 14887416 A 20140328; JP 2014059268 W 20140328; JP 2014084660 W 20141226; JP 2016509850 A 20140328; JP 2016509919 A 20141226