

Title (en)  
IMPROVED EXOSKELETON FOR ASSISTING HORIZONTAL EFFORTS

Title (de)  
VERBESSERTES EXOSKELETT ZUR UNTERSTÜTZUNG HORIZONTALER ANSTRENGUNGEN

Title (fr)  
EXOSQUELETTE AMELIORE POUR ASSISTANCE AUX EFFORTS HORIZONTAUX.

Publication  
**EP 3585567 A1 20200101 (FR)**

Application  
**EP 18709697 A 20180223**

Priority  
• FR 1751422 A 20170223  
• FR 2018050439 W 20180223

Abstract (en)  
[origin: CA3054646A1] The invention concerns an exoskeleton device and a method for using such a device comprising at least one leg (2, 33) arranged to be coupled to a foot (5) of a user (6), a link member (7) between the top end (8) of the leg (2) with which it is articulated and a support arm (9) linked on one side to the leg or the link member (7) and on the other side to a tool holder element (10). The device comprises a grip bar (11, 34) arranged so as to be handled with two hands by the user, attached to the support arm (9, 34), in a parallel or substantially parallel manner, close to or on the tool holder element.

IPC 8 full level  
**B25J 1/00** (2006.01); **B25J 9/00** (2006.01); **B25J 13/02** (2006.01)

CPC (source: EP US)  
**B25J 1/00** (2013.01 - EP); **B25J 9/0006** (2013.01 - EP US); **B25J 13/02** (2013.01 - EP US); **B25J 1/00** (2013.01 - US); **B25J 13/088** (2013.01 - US)

Citation (search report)  
See references of WO 2018154253A1

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)  
**FR 3063035 A1 20180824; FR 3063035 B1 20210611**; CA 3054646 A1 20180830; EP 3585567 A1 20200101; JP 2020508228 A 20200319; US 2019375095 A1 20191212; WO 2018154253 A1 20180830

DOCDB simple family (application)  
**FR 1751422 A 20170223**; CA 3054646 A 20180223; EP 18709697 A 20180223; FR 2018050439 W 20180223; JP 2019546036 A 20180223; US 201816488401 A 20180223