

Title (en)  
CAROUSEL-TYPE SINGLE-SPINDLE MULTI-TASK DEVICE

Title (de)  
KARUSSELL-EINZELSPINDEL-MULTITASKINGVORRICHTUNG

Title (fr)  
DISPOSITIF MULTI-TÂCHE MONO-BROCHE À CARROUSEL

Publication  
**EP 4178759 A1 20230517 (FR)**

Application  
**EP 20750168 A 20200707**

Priority  
EP 2020069158 W 20200707

Abstract (en)  
[origin: WO2022008039A1] The present invention relates to a multi-task device comprising: - means for securing said device to motorized handling means able to move said multi-task device at least partially in space with respect to a structure that is to be worked; - means for securing said device to said structure that is to be worked; - at least two functional modules, each of said functional modules comprising at least one mobile member able to allow a given task to be accomplished; said device comprising a single drive and control assembly for driving and controlling said functional modules, said drive and control assembly comprising: - a single drive spindle; - drive means capable of driving the movement of said spindle; - measurement means measuring at least one physical parameter indicative of at least one characteristic of operation of said functional modules; - control means controlling said drive means and said measurement means; said device further comprising coupling gear able to connect said single drive spindle, for the purposes of transmitting movement, alternatively to said at least one mobile member of said functional modules.

IPC 8 full level  
**B23Q 9/00** (2006.01); **B21J 15/10** (2006.01); **B23Q 39/00** (2006.01); **B23Q 39/02** (2006.01)

CPC (source: EP US)  
**B21J 15/142** (2013.01 - EP); **B23Q 9/0007** (2013.01 - EP); **B23Q 9/0042** (2013.01 - EP); **B23Q 39/024** (2013.01 - EP US);  
**B21J 15/142** (2013.01 - US); **B23Q 2039/004** (2013.01 - EP US)

Citation (search report)  
See references of WO 2022008039A1

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

Designated validation state (EPC)  
KH MA MD TN

DOCDB simple family (publication)  
**WO 2022008039 A1 20220113**; BR 112023000137 A2 20230314; EP 4178759 A1 20230517; JP 2023538485 A 20230908;  
US 2023302597 A1 20230928

DOCDB simple family (application)  
**EP 2020069158 W 20200707**; BR 112023000137 A 20200707; EP 20750168 A 20200707; JP 2023501513 A 20200707;  
US 202018004245 A 20200707