

Title (en)
COUPLING DEVICE

Title (de)
KOPPLUNGSVORRICHTUNG

Title (fr)
DISPOSITIF DE COUPLAGE

Publication
EP 3409840 A1 20181205 (EN)

Application
EP 18175224 A 20180530

Priority
IT 201700059602 A 20170531

Abstract (en)
A coupling device (1) for a quick coupler (100) prearranged for coupling to an adapter member (200) of a tool for a mechanical arm; the quick coupler (100) has a moving element (108), which is mobile in a direction (D) and is provided with at least one elongated member (110) mobile with reciprocating motion against the thrust of a spring (111) between a retracted position (P1) and an advanced position (P2) for engagement of the adapter member (200); an actuation assembly (112) being provided for switching each elongated member (110) between the retracted position (P1) and the advanced position (P2); the actuation assembly (112) comprising an annular cam (1120) carried by the frame (102), which is rotatable about an axis (103) transverse to the first plate (106); the actuation assembly (112) comprising a cam-follower (1126) transverse to the first plate (106) carried by the moving element (108) inside the cam (1120); a toothed arrest assembly (114) being provided for blocking each elongated member (110) longitudinally and the cam (1120) angularly with respect to the frame (102).

IPC 8 full level
E02F 3/36 (2006.01)

CPC (source: EP)
E02F 3/3627 (2013.01); **E02F 3/3672** (2013.01)

Citation (search report)
• [XA] EP 2832931 A1 20150204 - CANGINI BENNE SRL [IT]
• [XA] EP 3141662 A1 20170315 - CANGINI BENNE SRL [IT]
• [XA] EP 2910688 A1 20150826 - CANGINI BENNE SRL [IT]

Cited by
IT202100031157A1; WO2023111813A1

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)
EP 3409840 A1 20181205; EP 3409840 B1 20240221; IT 201700059602 A1 20181201; PL 3409840 T3 20240610

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