

Title (en)

Quick coupling, method for operating a quick coupling and quick coupling device

Title (de)

Schnellwechsler; Verfahren zum Betreiben eines Schnellwechslers und Schnellwechsellvorrichtung

Title (fr)

Attache rapide, procédé de fonctionnement d'une attache rapide et dispositif d'attache rapide

Publication

EP 2698477 B1 20200923 (DE)

Application

EP 13180732 A 20130816

Priority

DE 102012107567 A 20120817

Abstract (en)

[origin: EP2698477A2] The quick coupler has a locking device (32) for connecting working machine and tool. The locking device has locking elements (22,24) that are connected with hydraulic piston (28) which is moved in cylinder (30). An opening chamber (44) is connected with hydraulic valve over hydraulic passage (50) so that the locking elements are moved to opening position hydraulic pressure of hydraulic piston. The locking chamber (42) is connected with hydraulic valve (56) over hydraulic passage (46) so that locking elements are moved to locking position by hydraulic pressure of piston. An independent claim is included for a method for operating quick coupler.

IPC 8 full level

E02F 3/36 (2006.01)

CPC (source: EP)

E02F 3/3663 (2013.01)

Citation (examination)

WOMACK: "CYLINDER DRIFT PROBLEMS AND THEIR SOLUTION", FLUID POWER DESIGN DATA SHEET 54 - WOMACK DESIGN DATA FILE, 31 December 1990 (1990-12-31), USA, pages 1 - 2, XP055569745, Retrieved from the Internet <URL:https://www.womackmachine.com/media/272860/54-cylinder-drift-problems-and-their-solution.pdf> [retrieved on 20190315]

Cited by

DE102017122889A1; DE102018115249A1; WO2020002323A1; CN109555177A; CN112982522A

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 2698477 A2 20140219; EP 2698477 A3 20171101; EP 2698477 B1 20200923; DE 102012107567 A1 20140220;
DE 102012107567 B4 20150319; ES 2827002 T3 20210519

DOCDB simple family (application)

EP 13180732 A 20130816; DE 102012107567 A 20120817; ES 13180732 T 20130816