

Title (en)

Secure hydraulic locking device for quick coupling apparatus and for hydraulic connexions associated therewith, for a coupler.

Title (de)

Gesicherte hydraulische Verriegelungsvorrichtung für Schnellwechsellvorrichtungen und dazu gehörende hydraulische Verbindungen für einen Koppler.

Title (fr)

Dispositif sécurisé de verrouillage hydraulique d'attaches rapides et de connexions hydrauliques associées, pour un coupleur

Publication

EP 1473415 B1 20110608 (FR)

Application

EP 04356058 A 20040428

Priority

FR 0305377 A 20030430

Abstract (en)

[origin: EP1473415A1] The device has a hydraulic locking jack (10) with shank tip having a bolt (26) to cooperate with a tool. A distributor has a drawer (19) to link an accumulator (15) to chambers, in a locked position. A detector detects a coupled position of a coupler on the tool. An electromagnetic valve (22) feeds the chambers that are placed before the jack and a security jack (12), and implements a hydraulic cover (24) behind the jack (10).

IPC 8 full level

E02F 3/36 (2006.01); **E02F 9/22** (2006.01)

CPC (source: EP)

E02F 3/3613 (2013.01); **E02F 3/365** (2013.01); **E02F 3/3654** (2013.01); **E02F 3/3663** (2013.01); **E02F 9/2275** (2013.01)

Cited by

FR2886372A1; EP1566490A1; ES2383402A1; EP2378006A1; EP2426269A1; EP2426266A1; CN103189572A; FR2944534A1; EP2426268A1; CN103154381A; EP2426267A1; CN103154382A; US9377146B2; US7455494B2; WO2014072709A1; WO2012032044A1; WO2010061165A1; WO2012032054A1; WO2007064651A3; WO2006125877A1; WO2012032051A1; WO2012032050A1; US9404235B2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

EP 1473415 A1 20041103; **EP 1473415 B1 20110608**; AT E512258 T1 20110615; ES 2367888 T3 20111110; FR 2854415 A1 20041105; FR 2854415 B1 20050708

DOCDB simple family (application)

EP 04356058 A 20040428; AT 04356058 T 20040428; ES 04356058 T 20040428; FR 0305377 A 20030430