

Title (en)
Rapid action coupling for a works machine

Title (de)
Schnellkuppler für eine Baumaschine

Title (fr)
Raccord rapide pour un engin de travail

Publication
EP 2690223 A3 20170621 (DE)

Application
EP 13003552 A 20130715

Priority
• DE 202012007124 U 20120724
• DE 202012009838 U 20121015

Abstract (en)
[origin: EP2690223A2] The quick coupler (1) has a coupling retainer that receives a locking portion. A locking receptacle receives a locking portion. A self-locking securing element (7) catches and secures the locking portion. The locking element opens on reaching/exceeding a predetermined first pressure through a pressure control valve. A pressure control unit controls a second pressure greater than the first pressure and a third pressure lower than first pressure in unlock pressure port.

IPC 8 full level
E02F 3/36 (2006.01); **E02F 9/22** (2006.01); **F15B 13/02** (2006.01); **F15B 20/00** (2006.01)

CPC (source: EP US)
E02F 3/3618 (2013.01 - EP US); **E02F 3/3622** (2013.01 - EP US); **E02F 3/3627** (2013.01 - EP US); **E02F 3/3645** (2013.01 - EP US); **E02F 3/365** (2013.01 - EP US); **E02F 3/3663** (2013.01 - EP US); **E02F 9/2225** (2013.01 - EP US); **E02F 9/226** (2013.01 - EP US); **E02F 9/2296** (2013.01 - EP US); **F15B 2211/30505** (2013.01 - EP US); **F15B 2211/3059** (2013.01 - EP US); **F15B 2211/365** (2013.01 - EP US); **F15B 2211/50554** (2013.01 - EP US); **F15B 2211/5153** (2013.01 - EP US); **F15B 2211/528** (2013.01 - EP US); **F15B 2211/71** (2013.01 - EP US); **Y10T 403/22** (2015.01 - EP US)

Citation (search report)
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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)
DE 202012009838 U1 20131025; EP 2690223 A2 20140129; EP 2690223 A3 20170621; EP 2690223 B1 20190116; US 2014030005 A1 20140130; US 9382686 B2 20160705

DOCDB simple family (application)
DE 202012009838 U 20121015; EP 13003552 A 20130715; US 201313945723 A 20130718