

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 B1 20190116 (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)

Cited by
DE202020100794U1; US2014373401A1; US9388549B2

Designated contracting state (EPC)
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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