

Title (en)
Pump system

Title (de)
Pumpenanordnung

Title (fr)
Ensemble pompe

Publication
EP 1985854 A3 20091216 (DE)

Application
EP 08153734 A 20080331

Priority
AT 6312007 A 20070423

Abstract (en)
[origin: EP1985854A2] The pump assembly comprises two unlocking check valves (4,5), which are assigned to two pumps (2,3). Two pressure connections (A,B) are provided for connecting a locking side of the unlocking check valves to the pumps. A suction connection (S) is provided for connecting an opening side of the unlocking check valves to the pumps. Actuating devices (12,13) are provided for an unlocking of the unlocking check valves by activating the pumps.

IPC 8 full level
F04B 9/109 (2006.01); **A61G 13/02** (2006.01); **F04B 9/117** (2006.01); **F04B 49/00** (2006.01); **F04B 53/10** (2006.01); **F15B 7/00** (2006.01); **F15B 13/10** (2006.01)

CPC (source: EP)
F04B 9/109 (2013.01); **F04B 9/1176** (2013.01); **F04B 49/002** (2013.01); **F04B 53/10** (2013.01); **F15B 2211/20507** (2013.01); **F15B 2211/20538** (2013.01); **F15B 2211/20561** (2013.01); **F15B 2211/20576** (2013.01); **F15B 2211/3051** (2013.01); **F15B 2211/30515** (2013.01); **F15B 2211/785** (2013.01)

Citation (search report)
• [A] EP 0959217 A2 19991124 - HOERBIGER HYDRAULIK [DE]
• [A] DE 4233994 A1 19930923 - HOERBIGER VENTILWERKE AG [AT]
• [A] DE 4418776 A1 19941222 - HOERBIGER VENTILWERKE AG [AT]
• [A] EP 1161929 A2 20011212 - SCHMITZ & SOEHNE GMBH & CO KG [DE]

Cited by
CN102207068A; CN107514395A; CN104594749A; DE102010022952A1; DE102010022952B4; CN104563719A; EP3696326A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA MK RS

DOCDB simple family (publication)
EP 1985854 A2 20081029; **EP 1985854 A3 20091216**; **EP 1985854 B1 20130828**; AT 504791 A4 20080815; AT 504791 B1 20080815; PL 1985854 T3 20140131

DOCDB simple family (application)
EP 08153734 A 20080331; AT 6312007 A 20070423; PL 08153734 T 20080331