

Title (en)

HYDRAULIC DRIVE SYSTEM FOR OPERATING TABLE

Title (de)

HYDRAULISCHES ANTRIEBSSYSTEM FÜR OPERATIONSTISCH

Title (fr)

SYSTÈME D'ENTRAÎNEMENT HYDRAULIQUE POUR TABLE FONCTIONNELLE

Publication

EP 3211249 A4 20180704 (EN)

Application

EP 14904596 A 20141023

Priority

CN 2014089339 W 20141023

Abstract (en)

[origin: EP3211249A1] A hydraulic drive system for an operating table, the system comprising an oil supplying device for providing hydraulic oil, an oil returning device and an oil returning circuit assembly; the oil returning circuit assembly comprises two oil cylinders (261, 262), two reversing valve assemblies and two two-way hydraulic locks; a rodless cavity (2611, 2621) of each oil cylinder is connected to a working interface of the reversing valve assembly via a first oil path (31), and a rod cavity (2612, 2622) of each oil cylinder is connected to another working interface of the reversing valve assembly via a second oil path (32); an oil returning opening of each reversing valve assembly is connected to the oil returning device via an oil returning path (30); the oil returning path (30) is provided with an on-off control valve thereon; and the first oil path (31) and the second oil path (32) are subjected to two-w control via the two-way hydraulic lock. The system enables piston rods of the two oil cylinders (261, 262) to move independently and to move synchronously, thus simplifying a system structure, providing reliability and reducing cost.

IPC 8 full level

F15B 11/00 (2006.01); **A61G 13/10** (2006.01)

CPC (source: EP)

F15B 11/22 (2013.01); **A61G 13/08** (2013.01); **A61G 13/10** (2013.01); **A61G 13/1245** (2013.01); **F15B 2211/3051** (2013.01); **F15B 2211/3057** (2013.01); **F15B 2211/3138** (2013.01); **F15B 2211/31564** (2013.01); **F15B 2211/327** (2013.01); **F15B 2211/40507** (2013.01); **F15B 2211/41527** (2013.01); **F15B 2211/7053** (2013.01); **F15B 2211/71** (2013.01); **F15B 2211/7121** (2013.01); **F15B 2211/7142** (2013.01); **F15B 2211/782** (2013.01)

Citation (search report)

No further relevant documents disclosed

Cited by

DE102022203822B4

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 3211249 A1 20170830; **EP 3211249 A4 20180704**; **EP 3211249 B1 20190807**; CN 106574640 A 20170419; CN 106574640 B 20180731; WO 2016061797 A1 20160428

DOCDB simple family (application)

EP 14904596 A 20141023; CN 2014089339 W 20141023; CN 201480080898 A 20141023