

Title (en)

Device for simultaneous application of force by hydraulic actuators arranged in series

Title (de)

Vorrichtung zur gleichzeitigen Kraftausübung mittels hydraulisch hintereinandergeschalteter hydraulischer Stelleinheiten

Title (fr)

Dispositif pour l'application simultane d'une force par des actuateurs hydrauliques arrangees en serie

Publication

EP 0778191 B1 20020724 (DE)

Application

EP 96440107 A 19961206

Priority

DE 19545784 A 19951208

Abstract (en)

[origin: EP0778191A2] The force application device has a hydraulic pressure distribution system with a pump (P), a hydraulic fluid reservoirs (FB) and hydraulic setting devices (Z1,Z2), for simultaneous application of a given force at a number of spaced points (P1,P2). A controlled valve (V3), which is open when the device is inoperative, couples the intermediate line (L3) between successive setting devices to the hydraulic fluid reservoir for preventing uncontrolled movement of the setting devices caused by temperature-dependent pressure fluctuations.

IPC 1-7

B61L 5/04; **F15B 21/04**; **F15B 11/22**

IPC 8 full level

F15B 21/045 (2019.01); **B61L 5/04** (2006.01); **F15B 11/22** (2006.01)

CPC (source: EP)

B61L 5/04 (2013.01); **F15B 21/045** (2013.01)

Cited by

BG65297B1; AU750225B2; CZ298927B6; WO2008027662A1; WO2011127875A3; US6402095B1; US8302915B2; WO9951480A1

Designated contracting state (EPC)

AT DE IT SE

DOCDB simple family (publication)

EP 0778191 A2 19970611; **EP 0778191 A3 19990519**; **EP 0778191 B1 20020724**; AT E221012 T1 20020815; DE 19545784 A1 19970612; DE 59609478 D1 20020829

DOCDB simple family (application)

EP 96440107 A 19961206; AT 96440107 T 19961206; DE 19545784 A 19951208; DE 59609478 T 19961206