

Title (en)

Fluid circuit with load check valve.

Title (de)

Hydraulischer Kreislauf mit Rückschlagventil.

Title (fr)

Circuit hydraulique avec clapet anti-retour.

Publication

**EP 0036761 A2 19810930 (EN)**

Application

**EP 81301185 A 19810319**

Priority

US 8000321 W 19800324

Abstract (en)

The spool-type load check valve (20) of this invention, used in conjunction with additional check valves (60, 61) overcomes the problem of leakage in conventional spool type check valves by providing a series of interconnecting passages and chambers (36) for communicating equalized fluid pressure from a cylinder (11) to either end of the spool (27) thereof to provide for minimal leakage. When a pair of such cylinders (11, 12) are utilized, the load check valves (20, 20 min ) associated therewith are interconnected by a balance line (50) and resolver valves (47 min ) ensure equalization of fluid pressure in the cylinders upon actuation thereof and also a gradual descent of a load carried by the cylinders upon loss of fluid pressure between the check valves.

IPC 1-7

**F15B 11/16**; **F15B 13/01**

IPC 8 full level

**F15B 11/08** (2006.01); **F15B 13/01** (2006.01)

CPC (source: EP)

**F15B 13/01** (2013.01)

Cited by

US11781529B2; US2022220945A1

Designated contracting state (EPC)

BE DE FR GB

DOCDB simple family (publication)

**EP 0036761 A2 19810930**; **EP 0036761 A3 19820407**; JP S57500347 A 19820225; WO 8102768 A1 19811001

DOCDB simple family (application)

**EP 81301185 A 19810319**; JP 50256080 A 19800324; US 8000321 W 19800324