

Title (en)

FLUID PRESSURE INTENSIFYING APPARATUS.

Title (de)

VORRICHTUNG ZUR FLÜSSIGKEITSDRUCKVERSTÄRKUNG.

Title (fr)

APPAREIL MULTIPLICATEUR DE PRESSION DE FLUIDE.

Publication

**EP 0644984 A1 19950329 (EN)**

Application

**EP 93908356 A 19930312**

Priority

- CA 2135613 A 19930312
- US 9302379 W 19930312

Abstract (en)

[origin: WO9420754A1] A fluid pressure-intensifying apparatus of the double-acting type has end check valve assemblies (25, 25a). Each assembly has an inner low pressure poppet (100) communicable with the high pressure chamber (30) of the apparatus, and an outer high pressure ball poppet (110) communicable with a high pressure fluid outlet line (57). The check valve assembly (25) is designed for service accessibility without having to dismantle the intensifier. The apparatus includes a cylindrical housing (10) within which low and high pressure piston assemblies (28, 30, 30a) are confined by threaded end rings (12, 12a) under compression.

IPC 1-7

**F04B 17/00**; F04B 53/00; F16K 15/00

IPC 8 full level

**F04B 17/00** (2006.01); **F04B 53/00** (2006.01); **F04B 53/10** (2006.01); **F16K 15/00** (2006.01)

CPC (source: EP)

**F04B 53/109** (2013.01)

Designated contracting state (EPC)

AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

**WO 9420754 A1 19940915**; AT E159324 T1 19971115; AU 3920593 A 19940926; AU 671113 B2 19960815; CA 2135613 A1 19940913; CA 2135613 C 20050104; DE 69314635 D1 19971120; DE 69314635 T2 19980212; DK 0644984 T3 19980420; EP 0644984 A1 19950329; EP 0644984 A4 19960124; EP 0644984 B1 19971015; ES 2109485 T3 19980116; GR 3025559 T3 19980331; NO 303846 B1 19980907; NO 944319 D0 19941111; NO 944319 L 19950112

DOCDB simple family (application)

**US 9302379 W 19930312**; AT 93908356 T 19930312; AU 3920593 A 19930312; CA 2135613 A 19930312; DE 69314635 T 19930312; DK 93908356 T 19930312; EP 93908356 A 19930312; ES 93908356 T 19930312; GR 970403209 T 19971202; NO 944319 A 19941111