

Title (en)
PISTON PUMP FOR A HIGH-PRESSURE CLEANING DEVICE

Title (de)
KOLBENPUMPE FÜR EIN HOCHDRUCKREINIGUNGSGERÄT

Title (fr)
POMPE A PISTON POUR APPAREIL DE NETTOYAGE HAUTE PRESSION

Publication
EP 1047878 B1 20020417 (DE)

Application
EP 98966605 A 19981201

Priority

- DE 19801146 A 19980114
- EP 9807791 W 19981201

Abstract (en)
[origin: US6428291B1] In the case of a reciprocating pump for a high pressure cleaning appliance including a pump housing in which there is disposed at least one pumping chamber having an inlet valve, an outlet valve and a reciprocating piston that projects therein in sealed manner, said pump housing comprising a pump block and a pump head which abut closely together at a interface, wherein the pumping chambers and/or the connecting conduits penetrate the interface in sealed manner and, in the region of the interface, accommodate inserts that are insertable into the pumping chambers and/or the connecting conduits from the interface, said inserts being fixed between the pump block and the pump head when in their inserted position, it is proposed that the whole construction be simplified by making the inserts themselves and the region of the pumping chambers and the connecting conduits in which the inserts are accommodated out of a thermally softenable synthetic material, and by connecting the inserts to the wall of the pumping chamber or the connecting conduit in which they are accommodated by means of a welded joint.

IPC 1-7
F04B 53/00

IPC 8 full level
B23K 20/10 (2006.01); **B23K 20/12** (2006.01); **F04B 1/14** (2006.01); **F04B 53/00** (2006.01); **F04B 53/10** (2006.01); **F04C 15/06** (2006.01)

CPC (source: EP US)
F04B 1/141 (2013.01 - EP US); **F04B 53/007** (2013.01 - EP US); **F04B 53/10** (2013.01 - EP US); **F04C 15/066** (2013.01 - EP US); **F05C 2225/00** (2013.01 - EP US)

Cited by
DE102007003520B3; DE102007003521A1; DE102007003521B4

Designated contracting state (EPC)
AT BE CH DE DK ES FI FR GB IE IT LI LU NL PT SE

DOCDB simple family (publication)
US 6428291 B1 20020806; AT E216465 T1 20020515; AU 2412899 A 19990802; CN 1110634 C 20030604; CN 1285898 A 20010228; DE 19801146 C1 19990624; DE 59803886 D1 20020523; DK 1047878 T3 20020708; EP 1047878 A1 20001102; EP 1047878 B1 20020417; ES 2175856 T3 20021116; JP 2002509225 A 20020326; WO 9936700 A1 19990722

DOCDB simple family (application)
US 61540100 A 20000713; AT 98966605 T 19981201; AU 2412899 A 19981201; CN 98813136 A 19981201; DE 19801146 A 19980114; DE 59803886 T 19981201; DK 98966605 T 19981201; EP 9807791 W 19981201; EP 98966605 A 19981201; ES 98966605 T 19981201; JP 2000540374 A 19981201