

Title (en)
Reciprocating pump

Title (de)
Kolbenpumpe

Title (fr)
Pompe alternative

Publication
EP 2025937 B1 20100623 (EN)

Application
EP 07425514 A 20070807

Priority
EP 07425514 A 20070807

Abstract (en)
[origin: EP2025937A1] A reciprocating pump (1) comprising a pumping chamber (30) and an intermediate chamber (40), a reciprocating member (50), high pressure seal means (21) between the pumping chamber (30) and the intermediate chamber (40), low pressure seal means (22) between the intermediate chamber (40) and the crankshaft housing (10), a pumping circuit (60) and an auxiliary circuit (70) in fluid separation from the pumping circuit (60). The pump further comprises a recirculating unit (80) whose inlet is connected to the delivery chamber (72) of the auxiliary circuit (70) and whose outlet is connected to the suction chamber (71) of the auxiliary circuit (70). The recirculating unit (80) comprises a recirculating pump (81) which is designed to suck fluid from the delivery chamber (72) and pump such fluid in the suction chamber (71) for fluid recirculating in the auxiliary circuit (70).

IPC 8 full level
F04B 53/08 (2006.01)

CPC (source: EP)
F04B 5/00 (2013.01); **F04B 53/08** (2013.01); **F04B 53/164** (2013.01); **F04B 53/18** (2013.01)

Cited by
CN113638876A; EP3578811A1; IT201800006145A1; US10280910B2; US10246955B2; EP3267035A1; US2018010601A1; US10612536B2

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
EP 2025937 A1 20090218; **EP 2025937 B1 20100623**; AT E472058 T1 20100715; DE 602007007325 D1 20100805

DOCDB simple family (application)
EP 07425514 A 20070807; AT 07425514 T 20070807; DE 602007007325 T 20070807