

Title (en)
Pump device for cryogenic fluids

Title (de)
Pumpvorrichtung für cryogene Fluide

Title (fr)
Dispositif de pompage pour fluide cryogéniques

Publication
EP 0744546 B1 19981223 (DE)

Application
EP 96810311 A 19960515

Priority
CH 156495 A 19950526

Abstract (en)
[origin: EP0744546A1] The high pressure part incorporates a high pressure piston pump (2) and the pre-compressor part at least one pre-compressor piston pump (1). The two pumps are arranged in tandem and are synchronously operated. Each piston pump has a connecting rod (13,23), which at least in the area of the dividing wall (3) is completely separated from the other connecting rod. The drive of the piston connecting rods is electronically synchronised, or by mechanical devices (70,71). The connecting rods lie on a common axis. The mechanical devices incorporate at least one drive rod (70), which is displaced axially to the high pressure piston connecting rod and is connected with the high pressure and the pre-compressor piston connecting rods.

IPC 1-7
F04B 15/08

IPC 8 full level
F04B 15/08 (2006.01)

CPC (source: EP)
F04B 15/08 (2013.01)

Cited by
EP2461033A1; WO2004007958A1

Designated contracting state (EPC)
BE CH DE FR GB IT LI NL SE

DOCDB simple family (publication)
EP 0744546 A1 19961127; EP 0744546 B1 19981223; DE 59601034 D1 19990204

DOCDB simple family (application)
EP 96810311 A 19960515; DE 59601034 T 19960515