

Title (en)
OPERATION AND CONTROL OF A FREE PISTON AGGREGATE

Title (de)
STEUERUNG UND REGELUNG EINES FREIKOLBENAGGREGATES

Title (fr)
FONCTIONNEMENT ET COMMANDE D'UN GROUPE A PISTONS LIBRES

Publication
EP 0839265 A1 19980506 (EN)

Application
EP 96908391 A 19960410

Priority

- NL 9600157 W 19960410
- NL 1000098 A 19950410
- NL 1000479 A 19950601
- NL 1001750 A 19951127
- NL 1001939 A 19951220

Abstract (en)
[origin: WO9632576A1] A device is provided for generating a fast movement for controlling a free piston aggregate in particular, comprising a cylinder (72) with therein a first adjusting piston (51) with a first position and a second position, which adjusting piston, together with the cylinder, forms a first displacement space (61) that is minimal in the first position and a second displacement space (79) that is minimal in the second position, in which, in the first position, both displacement spaces are under low pressure and the first adjusting piston closes off a first supply port for a first main (59) with medium under high pressure, and in which means are present to initially move the first adjusting piston (51) from the first position in order to open the first supply gate, so that the medium under high pressure quickly moves the first adjusting piston (51) to the second position. In addition, the invention relates to the charging of the combustion space of a free piston aggregate and the corresponding charging device and to the supply and discharge of liquid to the compression spaces on either side of the compression piston of the free piston combination.

IPC 1-7
F02B 71/04; F01B 11/02; F01L 25/06

IPC 8 full level
F01B 11/02 (2006.01); **F01L 25/06** (2006.01); **F02B 71/04** (2006.01); **F02B 75/02** (2006.01)

CPC (source: EP)
F01B 11/02 (2013.01); **F01L 25/06** (2013.01); **F02B 71/045** (2013.01); **F02B 2075/025** (2013.01)

Citation (search report)
See references of WO 9632576A1

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

DOCDB simple family (publication)
WO 9632576 A1 19961017; AU 5163896 A 19961030; CA 2217864 A1 19961017; EP 0839265 A1 19980506

DOCDB simple family (application)
NL 9600157 W 19960410; AU 5163896 A 19960410; CA 2217864 A 19960410; EP 96908391 A 19960410