

Title (en)
METHOD FOR HARNESSING A MECHANICAL LIFT IN RESISTANCE REDUCTION CYLINDERS AND DEVICES FOR POWER INCREASING APPLICATION OF SAID LIFT IN PERFORMING WORK WITH MACHINES AND FOR INCREASING OPERATING POWER FOR ALL MEANS OF TRANSPORT

Title (de)
VERFAHREN ZUR BETREIBUNG EINES TECHNISCHEN AUFTRIEBS IN WIDERSTANDSREDUKTIONSZYLINDER UND VORRICHTUNGEN, ZUR LEISTUNGSSTEIGERNDEN ANWENDUNG DIESES AUFTRIEBES BEI DER VERRICHTUNG MASCHINENGEBUNDENER ARBEIT UND ZUR TRIEBLEISTUNGSSTEIGERUNG ALLER FORTBEWEGUNGSMITTEL

Title (fr)
PROCEDE POUR METTRE EN OEUVRE TECHNIQUEMENT UNE FORCE ASCENSIONNELLE DANS UN CYLINDRE DE REDUCTION DE RESISTANCE ET DISPOSITIFS PERMETTANT D'APPLIQUER CETTE FORCE ASCENSIONNELLE DE MANIERE A AUGMENTER LA PUISSANCE LORS DE L'EXECUTION D'UN TRAVAIL MACHINE ET D'AUGMENTER LA PUISSANCE DE COMMANDE DE TOUT MOYEN DE TRANSPORT

Publication
EP 1415091 A1 20040506 (DE)

Application
EP 01999746 A 20011105

Priority
• DE 0104111 W 20011105
• DE 10054967 A 20001106

Abstract (en)
[origin: WO0246609A1] Volume body masses with lower density than the gas in which the above are located, rise as a result of the reduced gravitational effect of the body relative to the gas. The possibility thus arises of using the mechanical lift for partial load reduction in a power process, whereby, in reduction chambers (45) within a cylinder (24), working forces, load on the reduction surfaces (35) and also on the baseplate are exerted and internal gas pressure surface forces in the reduction pressure chambers (45), on the reduction surfaces (35), counteract the basic pressure force, acting, on one side, from the side of base sliding plate (36) towards the base pressure chamber (44). On the opposing faces of said volumes the gas pressure surface forces of the gas pressure media lead to a low pressure in the chamber (46) with a mechanical lift, to give a directional gas pressure force in a machine system, or to constantly maintain an accelerated movement for the machine system.

IPC 1-7
F03G 7/10; **F04B 3/00**

IPC 8 full level
F03G 7/10 (2006.01); **F04B 3/00** (2006.01)

CPC (source: EP)
F03G 7/10 (2013.01); **F04B 3/003** (2013.01)

Citation (search report)
See references of WO 0246609A1

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

DOCDB simple family (publication)
WO 0246609 A1 20020613; **WO 0246609 A9 20030123**; AU 2153302 A 20020618; DE 10054967 A1 20021107; EP 1415091 A1 20040506

DOCDB simple family (application)
DE 0104111 W 20011105; AU 2153302 A 20011105; DE 10054967 A 20001106; EP 01999746 A 20011105