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(71)(72) Applicant and Inventor: PAGEL, Arnfried, Günter, Dagobert [NL/GB]; The Mount Molyneaux Avenue, Bovingdon, Hemel Hempstead, Herts HP3 0NZ (GB).

(54) Title: 1–CYLINDER–2–CHAMBER MOTOR

(57) Abstract

The 1–cylinder–2–chamber motor is a new motor, with a very typical and unique use of the power of explosion and force transmission. The movements of the cylinder are transmitting the power by hydraulic and/or mechanic force. The movements of the cylinder are independent of any mechanical force, like a crankshaft, piston bolt, connecting rod or valves. There is no loss of power. The 1–cylinder–2–chamber motor is of a simple construction and extremely robust. All kinds of fuel can be used, also hydrogen, and are even exchangeable. The 1–cylinder–2–chamber motor is not only ecologically and economically interesting, but can be used in any size and everywhere.

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1-CYLINDER-2-CHAMBER MOTOR

This invention relates to a motor running on fuel
The possibilty of force transmission by explosions in cylinderheads is known.

The development of this new motor is focused on hydraulic force transmission, besides by a pump-system also mechanic power can be transmitted and makes the motor usable for all kinds of work.
Every "1 cylinder-2-chamber motor" has to be seen as 1 unit.
An effective work of move units together, increases the driving power.

What is new on the "1 cylinder-2-chamber motor" ?

1) A cylinder driven by explosions, alternating from both sides of the cylinder house.
2) The mechanic force run of the cylinder don't need a crankshaft, a pison bolt, connecting rod or valves.
3) The forces of the motor are transmitted by a working bolt on each side of the cylinder in the working windows.
4) The force transmission is done by the working-bolt, part of pump-system and/or by mechanic.

ADVANTAGES OF THE INVENTION

A) a maximum usage of the speed, the power and force transmission.
B) a minimum of mechanic.
C) force transmission by a hydraulic pump system and/or mechananic .
D) All kinds of fuel can be used and changed.
E) a minimum of production costs
F) The possibility to let motor units work together.
G) universal usage.
H) high wear resistant, small repair costs

CLAIM

The idea of this "1 cylinder-2-chamber-motor" is new.

1) The " 1 cylinder-2-chamber-motor " has a cylinder house with 1 explosion chamber on each side, between them a cylinder.
2) The motor does not need a crank shaft, piston bolt, connecting rod or valves.
3) On both sides of the cylinder house is a spark and injection pump.
4) The cylinder is driven by the explosions on both sides of the cylinder house.
5) The motor block has on 2 sides a working window.
6) On the cylinder is a pump-mechanism fixed and/or a teeth bench.
7) Move motor units can work together.
8) High wear resistant, low repair costs.

INTERNATIONAL SEARCH REPORT

Int .tional Application No
PCT/NL 97/00607

A. CLASSIFICATION OF SUBJECT MATTER
IPC 6 F02B71/04

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 6 F02B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	NL 6 603 752 A (CITROEN) 26 September 1966	1,2,4-6, 8
A	see page 3, line 29 - page 4, line 33; claims 1-4; figures 1,2	3
X	DE 35 18 982 A (NIXDORF FRED) 13 November 1986 see page 11, paragraph 3 - page 12, paragraph 2; figure 1	1-5,8
X	DE 26 21 016 A (RESONANCE MOTORS INC) 25 November 1976	1-5,7
A	see page 22, paragraph 2 - page 23, paragraph 2; figures 1,5,8	8
A	DE 15 76 041 A (BRAUN) 18 June 1970 see page 17, paragraph 3 - page 18, paragraph 1; claims 13-16; figure 1	1,2,6

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☒ Patent family members are listed in annex.

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Name and mailing address of the ISA	Authorized officer
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INTERNATIONAL SEARCH REPORT

Information on patent family members

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