

Title (en)
A power conversion unit.

Title (de)
Energieumwandlungseinheit.

Title (fr)
Convertisseur d'énergie.

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Application
EP 81303546 A 19810803

Priority
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Abstract (en)
The invention relates to a power conversion unit (10) which includes a set of primary pistons (16), reciprocally displaceable in a set of primary cylinders (14), defined in a body, (12) on the internal combustion engine principle. The primary pistons (16) are directly connected, or via a constraining means, to a set of auxiliary pistons (28), reciprocally displaceable in a set of auxiliary cylinders (30), also defined in a body (32). The auxiliary pistons (28) can act upon a hydraulic fluid and the chemical and thermal energy of a combustible fuel, by combustion in the primary cylinders (14) is thus substantially directly converted to hydraulic energy available from the auxiliary cylinders (30). The constraining means may be a non-rotatably wobble plate (18), which can limit displacement of the pistons, and which can be mounted on a rotatable shaft (20) from which mechanical energy can be obtained to assist with the operation of the conversion unit (10).

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F01B 3/0005 (2013.01); **F01B 3/02** (2013.01); **F02B 63/06** (2013.01)

Citation (search report)
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