Title (en)

SEAL FOR A ROTARY VALVE FOR AN INTERNAL COMBUSTION ENGINE

Title (de)

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Title (fr)

JOINT D'ÉTANCHÉITÉ POUR UNE VANNE ROTATIVE POUR UN MOTEUR À COMBUSTION INTERNE

Publication

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Application

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Priority

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Abstract (en)

[origin: GB2453593A] A gas seal between a port (10, 12, fig.1) of a rotary valve (7) and a port 8 in a combustion chamber 6 of a rotary valve engine comprises gas channel means, eg a circular groove 15, which is supplied with gas under pressure to form a turbo valve 26 surrounding the port 8. Compression means creates a pressure in the gas channel means greater than a pressure in the combustion chamber 6 during a compression stroke and a power stroke of the engine. The pressurised air may be supplied to the groove 15 by a crankshaft-driven compressor or by crankcase compression charging an air storage chamber (21, fig.6). The air is forced tangentially, eg by a turbo valve injector 25, into the groove 15 where it circulates at high speed and at a pressure higher than that in the combustion chamber 6. The rotary valve rotor may be water-cooled.

IPC 8 full level

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