Title (en)

CONTROLLED MIXTURE FORMATION.

Title (de)

GEREGELTE GEMISCHBILDUNG.

Title (fr)

FORMATION CONTROLEE DE MELANGES.

Publication

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Application

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Priority

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Abstract (en)

[origin: WO9404812A1] The invention concerns the generation of homogenous mixtures having a freely selectable composition. The mixture is made using a rotary distribution vessel (1) with its own motor (6) and metered quantities of fuel mixture are introduced into the primary chamber (7) of the vessel via the intake pipe (10) through the metering valve (27), radially distributed by centrifugal force, very finely divided and mixed with air in the mixing chamber (21). The quantitiy and composition of the mixture are adjusted by means of the metering valve (27) in conjunction with the control valve (28) in such a way that the production of the mixture and its conveyance take place at approximately ambient pressure. A motor characteristic establishes the optimum setting for the metering valve and regulating valve for mixture production at approximately ambient pressure while improving fuel consumption and the quality of the exhaust gases. The invention, in connection with the control system described, is especially suitable for the best possible operation of four-stroke engines with lean mixtures at lambda values of at least 1.5 and, in general, 1.8.

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