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The invention relates to the internal combustion engines that is directed to improve efficiency thereof. The engine contains the first cylinder (12) and the second one (14). The first cylinder has a greater displacement volume than the second cylinder (14), by that the latter is mounted onto the head of the first cylinder. The respective pistons (16, 18) are reciprocated in each cylinders. The second piston (18) is executed as bulge on the first piston head (16). The first cylinder possesses an intake air channel (25) and an exhaust port (27) by that the fuel from the first feed source (34) is directed to the second cylinder (14). The second one has a head (35) which is displaced and connected with first piston head (36), having a bolt edge (37) with a relative small thickness in axial direction compared with displacement base of first piston head out of second piston head.

As a result the combustion chamber (20) is formed between the piston ends and lateral wall (14a) while the pistons are situated in bottom dead centre. This chamber (20) is connected with both cylinders (12, 14) during a fraction of stroke or expansion.

Claims: 58

