

96-0036

The internal combustion engine contains one or more pairs of the first or second cylinders (12, 14), by that the first cylinder's (12) volume is more than of the second one (14), as well as, the corresponding first and second pistons (16, 18). The second piston (18) is provided with the driving rod (234) and devides the second cylinder (14) in the first volume (15a), containing the second piston's driving rod, and the second one (15b) between two pistons. The first cylinder (12) is provided will the branch pipe (25) for air inlet and the outlet pipe (27). The general combustion space is formed between two pistons (16, 18), when the pistons are in the position of the internal dead centre, by that the combustion space contains the second volume. The transmission means (39, 128) the gas flow possibility between the first volume (15a) and the combustion space to the compression motion end just as the release mean (128) arrests the combustion and air mixture movement from first volume to the second one till the end of the second's piston (18) compression motion. The injector (34) feeds the combustion for the first volume during the second piston's suction stroke. The engine is also provided with the driving mean for the first piston (18), which includes the stoppage one for the second piston (18) in the internal dead centre position during one past of the first piston's (16) working stroke.

There is also proposed the functioning process of this engine.