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The invention relates to internal combustion engines and is provided for efficiency rising. The internal combustion engine comprises an air filter (12) and a fuel control cylinder (14) interconnected in the head tops by the combustion chamber (20) as well as the corresponding pistons (16,18), placed into the cylinders with reciprocated movement possibility, the air feeding means (25) for the first cylinder and fuel feeding (34) for the second one, the common combustion chamber is provided with the ignition means on the wall and combustion - air mixing means manufactured in the form of a first cylinder opening, and a second cylinder opening for feeding the combustion - air mixture as gas flow, by that the first opening is tangential relatively to the combustion chamber wall, the combustion chamber having the inner surface continuous surrounding at least one axis, the combustion chamber axis is perpendicular to the first cylinder one. The catalyst of the thin platinum strata on the combustion chamber wall initiates the continuous mixture combustion/air ignition at the compression. As the catalyst provides the ignition of the poor combustion-air mixtures which can't be an ignition spark, there is achieved the significant combustion saving at the complete combustion and small exhaust giving off.