

*Experiments in Four-stroke Engine Design

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A review of several years' efforts to improve the breed of model petrol engines for speed-boat propulsion and other purposes.

BEFORE dismissing the subject of cross-camshaft engines, mention may be made of an engine which I designed several years ago for Mr. Tom Senior, which may be unknown to many readers, as it has never been described in this or any other journal. The bore and stroke of this engine are each

$1\frac{5}{16}$ in., so that it has a capacity of slightly under 30 c.c., and its design is on straightforward lines, the crankcase being split on the vertical centre line, with ball-races for the main bearings in each half, to take a double-web crankshaft. In the original design, the cylinder is air-cooled, and has a finned head with vertical valves, but provision is made for fitting an alternative side-valve water-cooled cylinder.

*Continued from page 374, "M.E.," October 19, 1944.

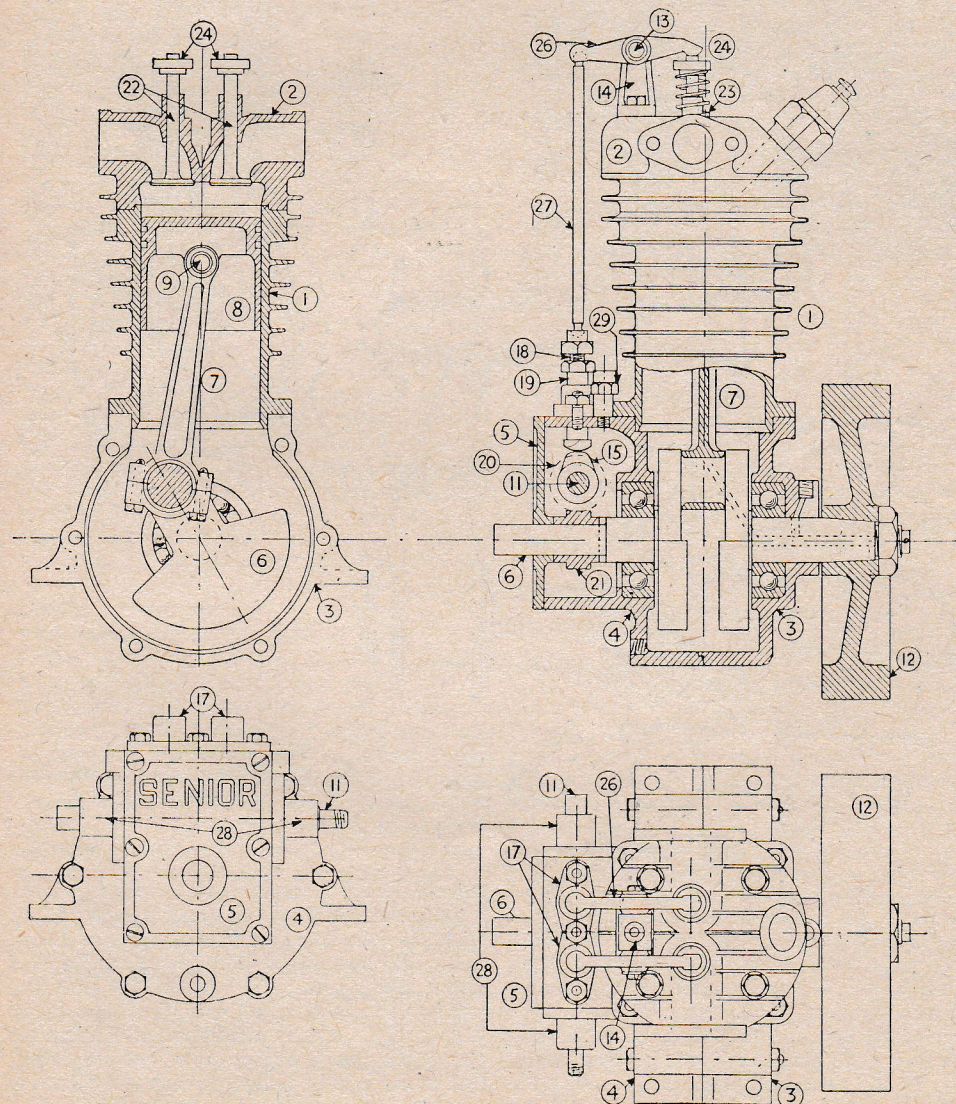


Fig. 16. The "Senior" 30 c.c. engine.