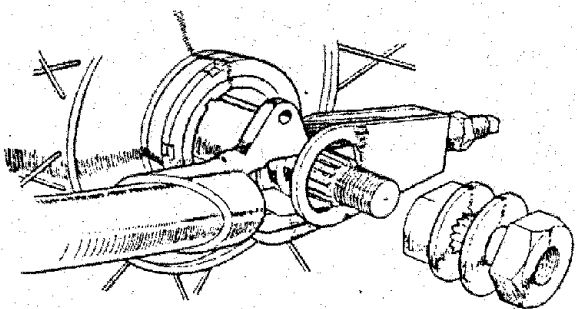
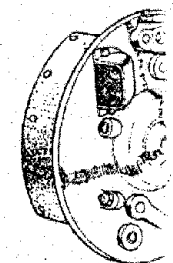
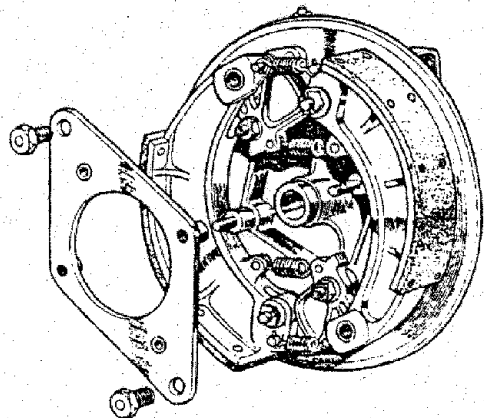


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MOTOR CYCLING



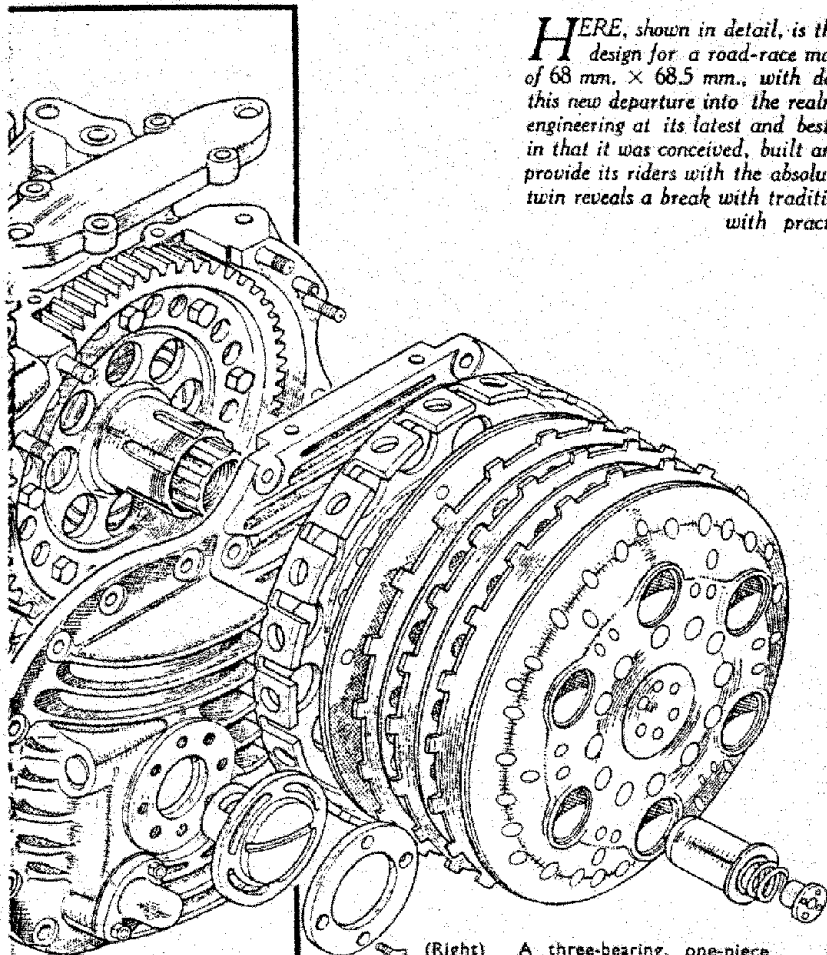
(Above) How a splined and flat-sided distance-piece, fitting into the slotted fork end, is used to ensure rear axle security and at the same time provide for chain tensioning by means of the draw-type adjuster.



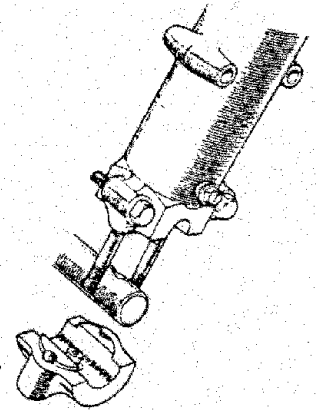
(Left) A twin-roller is a feature of brakes. The two rollers in the shoes off action is the inner springs; the inner assist the outer of the cams. Rigidity, bolts is provided by shown detached. A coupling rod shoe clear

A MODERN RACING MOTORCYCLE—THE A.J.S.

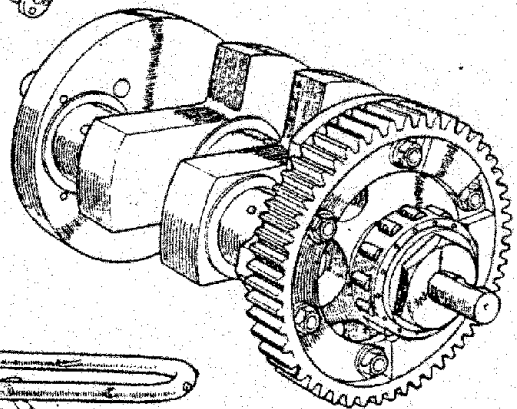
HERE, shown in detail, is the make-up of the world's first post-war design for a road-race machine. A parallel-cylinder 499 c.c. twin, of 68 mm. x 68.5 mm., with double overhead-camshaft valve operation, this new departure into the realms of speed represents British motorcycle engineering at its latest and best. Strictly functional from axle to axle, in that it was conceived, built and developed with no other object than to provide its riders with the absolute ultimate in speed machinery, the A.J.S. twin reveals a break with traditional layout and combines inventive genius with practical craftsmanship.



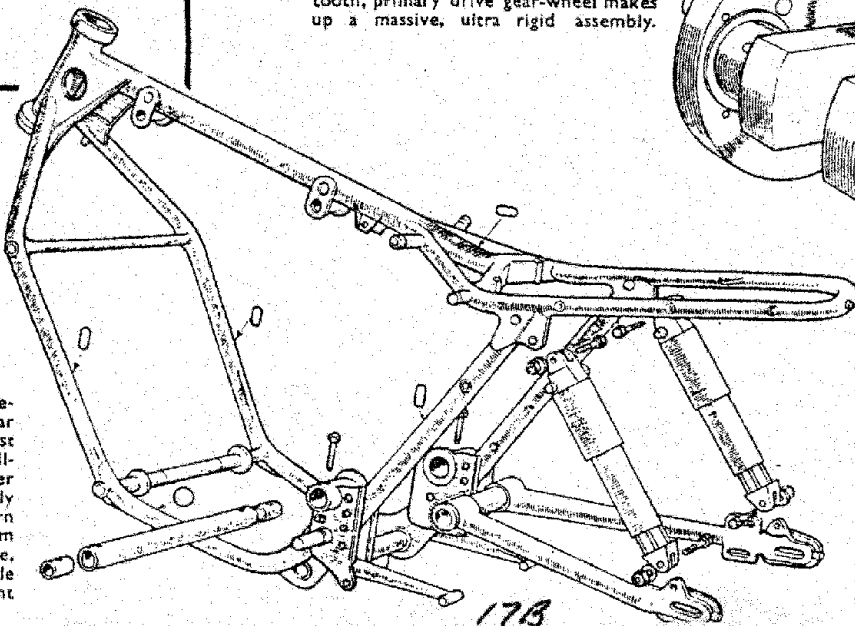
(Right) A three-bearing, one-piece crankshaft with a bolted-on, straight-tooth, primary drive gear-wheel makes up a massive, ultra rigid assembly.



(Above) Modified Teledraulic front forks incorporate a dowel-peg in the lower half of the split lug to locate the front axle. Double lugs for brake back-plate anchorage are provided.



(Left) The light and immensely strong frame which carries the A.J.S. engine-gearbox unit has several unusual features. All joints are welded and, where necessary, gusseted for additional strength. The tubes from the steering head to the forward crankcase bearer crossmember are of elliptical section. To the rear of the crossmember they become round while, from the gearbox lugs to the saddle, they are elliptical. The saddle-seat support is built in with the frame and the rear suspension embodies a pair of oleo-pneumatic legs in place of saddle springs.



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of the outer
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it also return
shoe fulcrum
trigger plate.
An adjustable
independent
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