



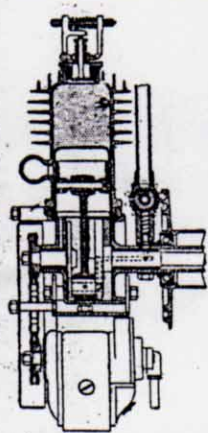
The Olympia Show.—

CYKELAID. (49.)

1½ h.p.; 51×51 mm. (105 c.c.); two-stroke; mechanical lubrication; Amac carburetter; Runbaken chain-driven magneto; single-speed gear; chain drive; 28×1½ in. tyres.

THE SHEPPEE MOTOR CO., LTD., York.

—The Cykelaid is one of the most interesting small machines in the Show. It is designed to be attached quite easily to the ordinary pedal bicycle, and, when-attached, it forms a vehicle which



Cykelaid power unit in section, showing the "taximeter" drive for the lubricating pump. The main shaft is extended through the spindle of the wheel hub.

can be used for shopping or even for comparatively long spins. And it should be useful in the country, where the market town or shopping centre is some short distance from the owner's house. The whole of the mechanism is carried on a pair of forks with a special head tube fitting into the head of the cycle. On the left-hand side is a two-stroke engine, having below it, and inverted, a magneto driven by a chain from the crankshaft. The crankshaft is extended right through the front hub, and on the right-hand side is a flywheel with a sprocket, the latter making the short chain which drives a countershaft, on which is a cork-insert clutch, and power is transmitted back to the front hub through a second chain. It is possible to vary the pressure on the clutch, but it is not intended that this should be a normal part of the control, since simplicity of action is a great claim. One of the most ingenious details of the design is the lubrication, for oil is carried in a vertical tube in front of the bicycle head, and feeds down to a small rotating cylinder, so contrived that it acts as an oil pump. The cylinder is driven by a small gear wheel meshing with a cam path, and the whole device is automatic, oil being supplied to the engine bearings in definite quantities at regular intervals. The makers claim that the device is practically self-steering, and are demonstrating this fact during the Show. Oil and petrol sufficient for a hundred miles are of small dimensions clamped above the mudguard.

MOTOR CYCLE

DECEMBER 2nd, 1920.