



# EIGHT-MILES-FOR-A-PENNY CYCLE

## Egg-cup size engine gives 20mph

By GOURTENAY EDWARDS

**B**RTAIN'S smallest, quietest, and cheapest motor-cycle took me along yesterday at 20 m.p.h. Its tiny 25 c.c. engine—no bigger than an egg-cup—was using petrol at the rate of 300 miles to the gallon. That means eight miles for a penny.

A pint beer bottle in your picnic haversack would hold a "fuel" reserve sufficient for 35 miles.

They call it the Cyclemaster, and it is the latest contribution to the vogue of power-assisted cycling.

It is simply a motorised wheel which can be fitted to any pedal bicycle. You take out your ordinary rear wheel and fit this "magic wheel" in its place. It takes only 20 minutes.

### Chain drive

It costs £23, and because it ranks as an accessory is free from purchase tax. The whole thing, including two-stroke engine and 2½-pint petrol tank, fits neatly around the hub, and weighs only 20lb.

Most "clip on" cyclemotors drive one of the wheels by a friction roller, working on the tyre. In the Cyclemaster chains transmit power to the clutch and then to the wheel.

I tried out the "magic wheel" yesterday at Hayes, Middlesex, where they are being built at the E.M.I. factory for Cyclemaster, Ltd.

### No fuss

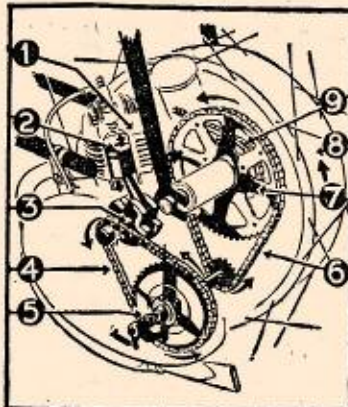
After pushing the pedals round two or three times in the ordinary way, I released the clutch lever on the handlebar and the tiny ½-h.p. engine started instantly.

It purred away without fuss at nearly 4,000 revolutions a minute as I opened the throttle lever, and I was soon bowling along at 20 m.p.h.

An official said: "Our schedule calls for a production rate of 300 a day by the end of the year. They will be sold by both garages and cycle shops."



### HOW IT WORKS



And here's the key to the diagram:  
 1, Cylinder stationary; 2, Piston goes up and down; 3, Crankshaft revolves; 4, Chain drive to clutch; 5, Clutch-operating mechanism; 6, Chain to main drive; 7, Main drive to wheel-drum; 8, Wheel-drum revolves; 9, Ordinary chain from pedals.