

MOTORCYCLE NOVEMBER 16th, 1922

## A MOTORISED FRONT WHEEL.

Cykelaïd Complete Power Unit and Spring Fork Attachment for Pedal Bicycles.

APPARENTLY the Sheppee Motor Co., Ltd., of York, has devoted more than an ordinary degree of logical thought to the problem of evolving a soundly designed motorised or motor-assisted bicycle.

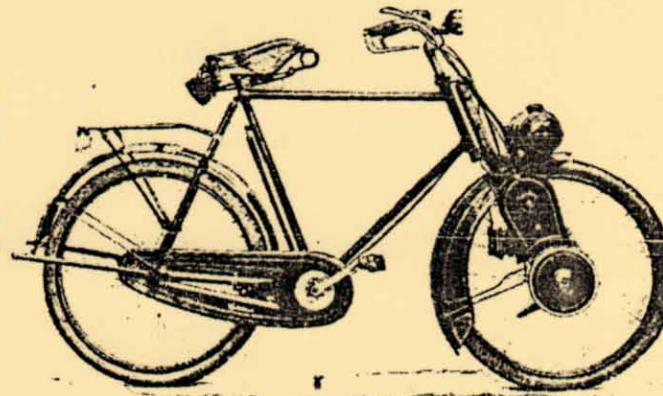
Briefly, instead of applying power to the back wheel of the machine from an engine mounted in the frame (so subjecting the latter to many stresses which it was not designed to resist), a completely motorised front wheel and spring fork has been adopted.

The complete machine so laid out, or the separate attachment for use which an ordinary pedal cycle, is known as the Cykelaïd, and was introduced to the public at the last Olympia Show, but, during the interval production has been delayed pending the development of the latest and much improved design.

A two-stroke engine of 55 x 56 mm. bore and stroke (133 c.c. capacity) is mounted on the side of the forks, ignition and lighting being provided by a Villiers' flywheel magneto. Transmission to the wheel is by chains throughout, via a handle-bar controlled cork-insert clutch.

Although a power-driven front wheel is not an innovation, its complete insula-

Engine, with tank, flywheel magneto and chain transmission is mounted on a heavy spring-fork to form the Cykelaïd unit. The bicycle part may be any standard roadster; in this example 26 x 2 in. wheels are fitted



tion from the bicycle by a sound and fairly heavy spring-fork is a feature likely to eliminate many of the troubles hitherto associated with this type of attachment, for the cycle is, in effect, merely towed, and bears little of the weight, and is subject to none of the torque reactions encountered when the power unit is fitted to any part of the original bicycle itself.

It is claimed that the weight distribution on the Cykelaïd attachment is so good that the machine can be ridden with the hands away from the bars quite easily.

Speeds up to 30 m.p.h. are claimed—the tyres, incidentally, are 26 x 2 in., and ball and roller bearings are used throughout. The price of the complete machine is £24 10s.