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# THE MOTOR CYCLE

FOUNDED 1903

CIRCULATES THROUGHOUT THE WORLD

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pro...  
 to suit them more easily now than later.

### Novel Power Drive

A NOVEL method of power assisting a pedal-cycle has been patented (No. 581,866) by B.S.As and Mr. V. J. Stohanzl. Below the bottom bracket of the bicycle is a tiny engine which may be slid backwards till a flange on the inside of the flywheel makes contact with the rear tyre. The engine is thus started.

On the outside of the flywheel is an eccentric which by means of a tension wire is connected to a one-way ball-type clutch on the hub of the rear wheel. An arm from the outer member of the clutch is connected through a bracket to a quarter-elliptic spring on the fork tube.

When the engine is running the outer member of the clutch is, say, first pulled clockwise by the tension wire. The fork tube spring is therefore loaded till the eccentric turns far enough to relieve the tension wire. This allows the fork tube spring to react and drive the rear wheel through the clutch. It is intended that the engine shall be of very small capacity to serve as an auxiliary to pedalling against head winds or uphill.



(Right)  
 Layout of the B.S.A. patented  
 "ratchet" drive for power-  
 assisted bicycles

...ed. The maker is  
 "Storingard" Works, Sunderland.

