

**NOWADAYS**  
**NO MORE PEDALLING...**  
**BECOME a V.I.P... WITH a VAP**



# WITH THE AUXILIARY ENGINE FOR CYCLES



fitted to **your** bicycle you will

*Without tiring go... Farther... And Faster...*

The **VAP 4 engine** is the result of many years experience. It meets all the cyclist's requirements : **simplicity, sturdiness, reliability, power.**

The **VAP 4 engine** fits **any type** of bicycle or tandem.

It is mounted on the rear wheel spindle, this being the only rational position. Thus :

- The strain on the frame is reduced to a minimum.
- The centre of gravity is lowered.
- The pedal cranks are not obstructed.
- The luggage carrier is free.
- The Rider is assured of utmost comfort, being protected against exhaust fumes, grease and oil.

The main characteristics of the **VAP 4 engine** are the following :  
Petrol (gasoline) engine - one cylinder - two stroke - Crank-case compression - timing by piston displacement and cylinder ports.

## Fuel Supply :

- By an automatic air flap carburettor.
- Consumes any kind of petrol (gasoline).
- No special fuel required.
- Tank capacity 0.5 Imperial gallon (0.6 U.S. gallon).

## Lubrication :

- By Petroil (oil mixed to gasoline) : 3 measures of oil per 1 3/4 pints of petrol. (Using petrol tank cap as measure).

## Ignition :

- By specially designed ABC fly wheel magneto, allowing easy starting up even in very cold weather.

## Transmission :

- By roller chain to the rear wheel. This is by far the best system, being simple, efficient, noiseless, wear resisting, easily maintained and slip proof.

## Friction Clutch :

- Easily operated by a lever on handlebar under all circumstances with engine running and without dismounting.

The **VAP 4 engine** is simple in design, easy to operate and pleasant to drive.

This is the auxiliary engine which will give you full satisfaction and allow you to

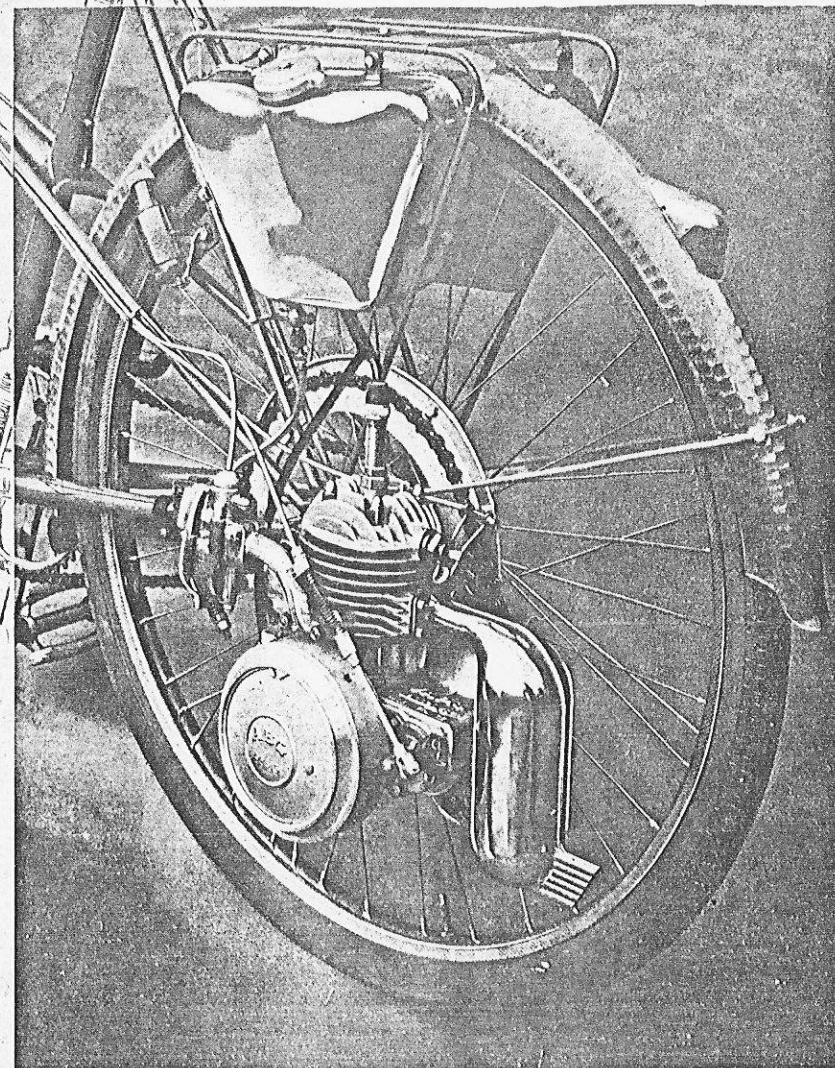
*Without tiring go... Farther... And Faster...*

SOCIÉTÉ **ABG** Manufacturers PARIS  
Concessionaires to the U.K.

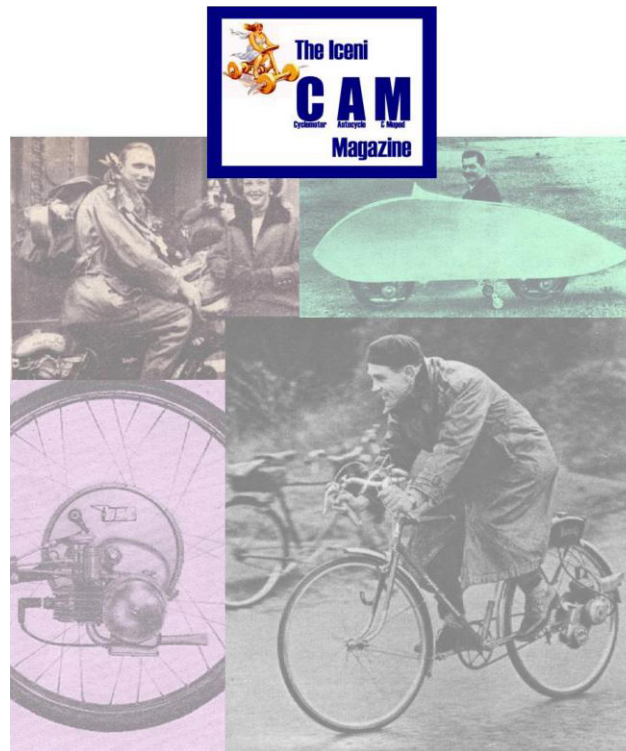
Frank Lawrence Motor-cycles  
125-67 Falcon Road, London, S.W.11  
Telephone : BATtersea 5659

Power . . . . . 1 B.H.P.  
Speed . . . . . 25 m.p.h.  
Weight complete . 20 lb.

Bore . . . . . 40 mm.  
Stroke . . . . . 38 mm.  
Cylinder capacity . 48 cc.



# IceniCAM On-Line Library



[www.icenicam.org.uk](http://www.icenicam.org.uk)