New 13-lb. French Road Racing Bicycle

A NEW duralumin machine has just appeared in France under the name of the "Caminargent," which presents certain constructional fea-

tures of interest.

The "Caminargent" is built up entirely with bottled lugs, no welding being employed anywhere. The tubes are octagonal in section and the bolting arrangements are carefully designed to avoid any possible weakening of the tubes, whilst the last mentioned are supported by the control of the control are in their present stage of development, sometimes liable to rather rapid

fatigue and molecular disintegration.
The steel employed in ordinary goodclass cycle tubing is tested for a shearing strain of 60 kg, per sq. cm., whilst the duralumin used in the "Caminargent" will only support 42 kg. Whilst the resistance is thus less, the density of the light metal is only 2.7 as compared with 7.8 for steel. It is thus possible to double the section when employing aluminium, and as a result we have a tube with a much higher resistance—84 kg, per sq, cm., with a



The component parts of the new French bicycle.