New Patents.

Specially contributed by Messrs. Edward Evans & Co., Consulting Engineers, Chartered Patent Agents, and Enrolled Patent Attorneys of the United States, of 27, Chancery Lane, London, W.C., and 105, Colmore Row, Birmingham.

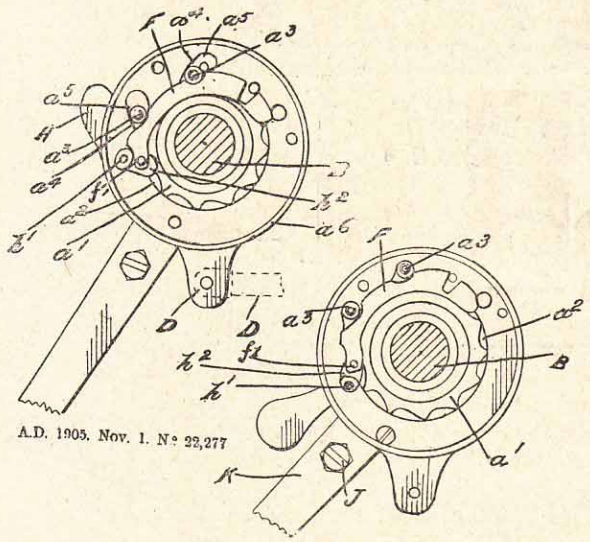
The undermentioned applications are all in the stage in which opposition to the grant of a Patent upon them can be made. Messrs. Edward Evans & Co. would be pleased to forward a copy of any of the specifications on request, and on remittance of a P.O. for 1/- to cover cost and postage. They would also be pleased to advise upon the novelty, subject matter, and value of any invention submitted to them by our subscribers.

APPLICATIONS PUBLISHED ON OCTOBER 25, 1906.

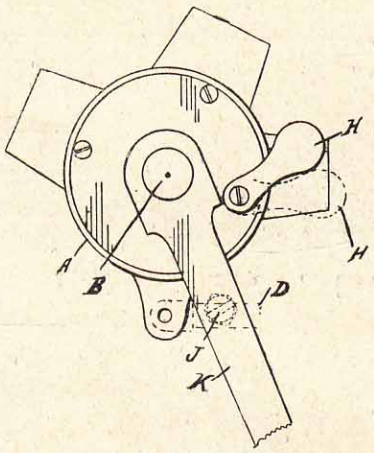
PATENTS RELATING TO CYCLE CONSTRUCTION.

Brake-Actuating Clutches for Cycles and the like.

22,277, '05. The James Cycle Co., and F. A. Kimberley. This invention relates to improvements in brake-actuating clutches for cycles and the like, and particularly refers to those clutches the balls of which may be thrown out of action to allow of the machine being wheeled backward, and which clutches are mounted upon the crank spindle of the bottom bracket for the purpose of actuating the band or rim brake of cycles fitted with a free wheel. In carrying this invention into effect, the clutch A is mounted upon the crank spindle B, the ratchet portion $a1$ of the



clutch A being fixed to the crank spindle so as to revolve therewith. The centre $a2$ of the interior of the clutch is recessed to accommodate the ratchet portion with which the balls or rollers $a3$ engage during the backward movement of the pedals, the balls $a3$ being jammed by the ratchet $a1$ against the sides $a4$ of inclined recesses $a5$ formed in the interior of the casing $a6$, and thereby causing the casing to partly rotate and operate the brake rod or connection D, but which balls $a3$ during forward pedalling ride over the ratchet and allow the casing $a6$ to remain stationary. A suitable cap and cover plate E is placed over the balls, the cover plate being cut away at $e1$ to allow working room for a pivoted cam or lever F. A lever or arm H is pivoted in the outside face of the casing A with its pivot $h1$ passing through to the inside of the casing, where it is provided with a projection or arm $h2$ which is pivoted to, or butts against, the one end $f1$ of the cam or lever in such a manner that, when the lever arm is pulled out, the projection $h2$ on the inside raises the cam lever F, causing it to force the balls or rollers $a3$ into the recesses $a5$ clear



of the ratchet, thereby allowing the machine to be wheeled backward without putting on the brake. A small spring-controlled projection J is formed upon the pedal crank K, which projection passes over the lever arm during back-pedalling, but immediately the pedals are reversed for the drive, the spring projection J presses the lever arm H into its normal position, and allows the machine to be driven forward, thus automatically bringing brake mechanism into action.

PATENTS RELATING TO TYRES, WHEELS, AND ACCESSORIES.

Methods of Obviating Noise in Geared Wheels.

23,113, '05. F. Dowling. This relates to a method of obviating noise in geared wheels, in which a narrow wheel of the same diameter and pitch as the driven wheel is placed alongside the said wheel, but free on the shaft upon which the driven wheel is keyed. The driving wheel or pinion is sufficiently wide to cover the teeth of both driven wheels. The arms of the driven wheel are connected with the arms of the loose wheel by a number of strong springs, either in tension or compression, so that the teeth of the driven and loose wheels will tend always to bind on the teeth of the pinion.

Tread Bands and Covers for Tyres of Vehicle Wheels.

24,283, '05. C. Bright. This relates to a tyre or band for use on motor cars and other vehicles, and is characterized by a framework of bars and wires or the like, of which some extend round the circumference of the tyre, while others cross it transversely, said bars or wires preferably interlocking with one another and being imbedded in a filling which consists of a composition of leather and rubber or of other suitable material, at the surface of which material certain parts of the wires or the like are arranged to project at intervals.

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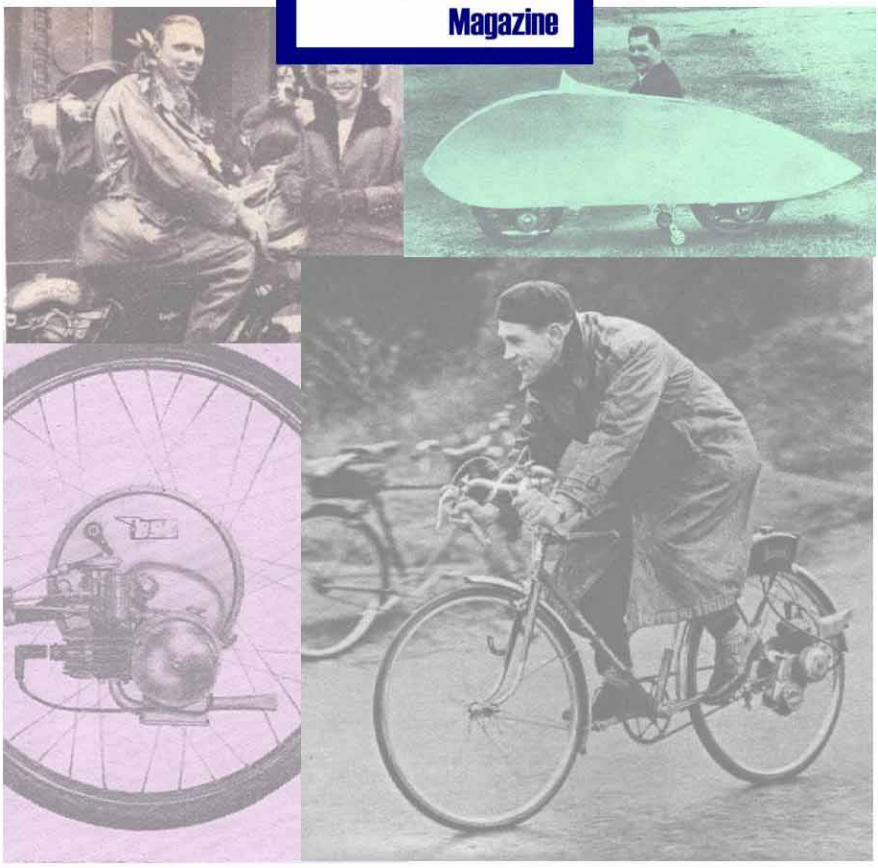

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