

No. 844,853.

PATENTED FEB. 19, 1907.

J. L. DIDIER.
OIL RETAINING DEVICE FOR EXPLOSION MOTORS.

APPLICATION FILED OCT. 24, 1906.

Fig. 1.

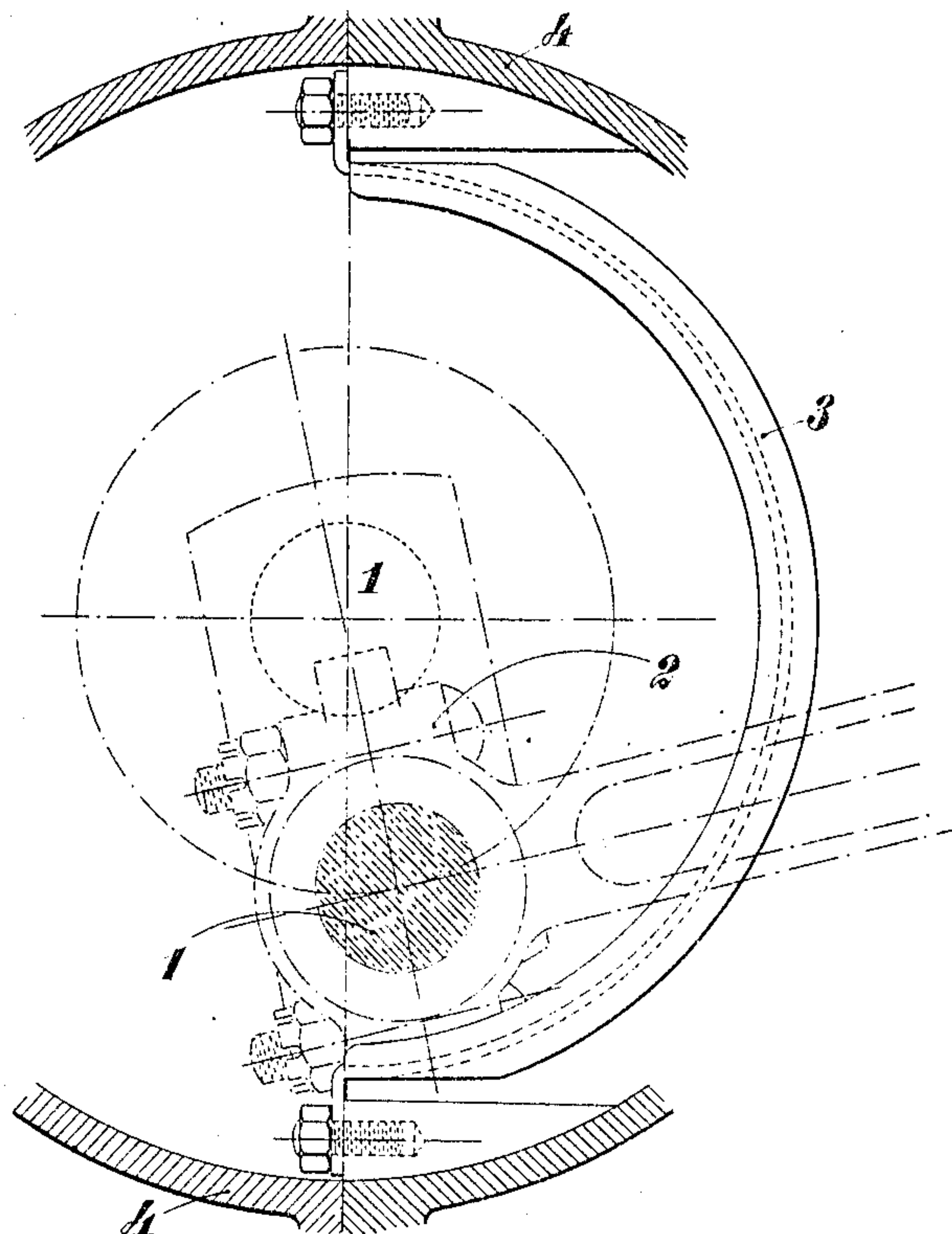
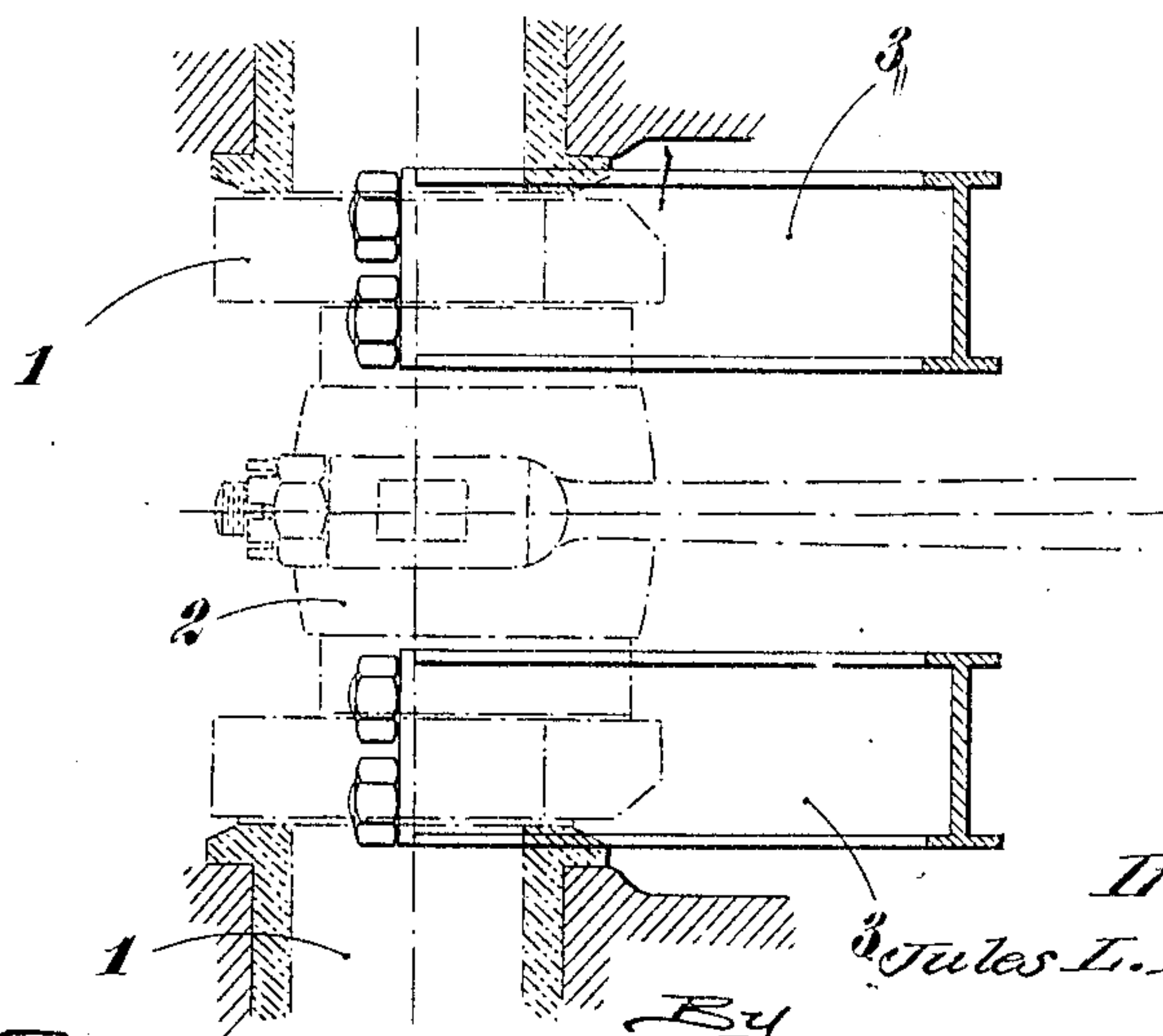


Fig 2



Witnesses:

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UNITED STATES PATENT OFFICE.

JULES LOUIS DIDIER, OF ST. CLOUD, FRANCE.

OIL-RETAINING DEVICE FOR EXPLOSION-MOTORS.

No. 844,853.

Specification of Letters Patent.

Patented Feb. 19, 1907.

Application filed October 24, 1906. Serial No. 340,381.

To all whom it may concern:

Be it known that I, JULES LOUIS DIDIER, engineer, citizen of the French Republic, residing at St. Cloud, Department of Seine-& Oise, France, (and having post-office address 28 Parc Moutretout, in the said city,) have invented certain new and useful Improvements in Oil-Retaining Devices for Explosion-Motors, of which the following is a specification.

It is known that lubricating-oil has a tendency to escape at the joints of the parts that it is intended to lubricate. This tendency is increased and frequently followed by projections of oil outside the heads of connecting-rods or similar parts, owing to the intensity of the centrifugal force. In explosion-motors these defects are aggravated by the fact that the oil is carried into the cylinders, where it is then burned. The result is frequently fouling of the ignition-plugs or, at all events, a losing of lubricating-oil by combustion, which likewise gives rise to a visible escape, giving off an unpleasant odor.

The invention has for its object to obviate these defects and to collect the oil projected by centrifugal force.

In the accompanying drawings, Figure 1 is a partial cross-section through a motor, and Fig. 2 is a partial longitudinal section.

1 is the cranked shaft, and 2 the head of the connecting-rod mounted upon it.

3 3 are two channel-shaped screens which are fixed upon the crank-case 4. They are

arranged concentrically to the axis of rotation of the crank and surround its webs, separating them from the cylinder. The oil projected by centrifugal force in the direction of the cylinder is stopped by the screens and flows toward their lowest point, where it may be collected. It is therefore possible by means of this arrangement to lubricate the heads of the connecting-rods and the bearings by means of oil under pressure circulating in the interior of the crank without danger of a portion of the oil being lost or carried into the cylinders.

Having now particularly described and ascertained the nature of my said invention and in what manner the same is to be performed, I declare that what I claim is—

An oil-retaining device for the heads of connecting-rods of explosion-motors, comprising a pair of spaced channel-shaped screens mounted within the crank-case and arranged concentrically to the axis of rotation of the crank-pin, said screens having their ends secured to the crank-case and acting as a means to stop and collect the oil projected by centrifugal force, thereby preventing it from entering the cylinders, substantially as described.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

JULES LOUIS DIDIER.

Witnesses.

EMILE KLOTZ,

GEORGES GLEDDY.