

T. S. BROWN.

SELF OILING DEVICE FOR CRANK PINS AND JOURNALS.

No. 62,601.

Patented Mar. 5, 1867.

Fig. 1

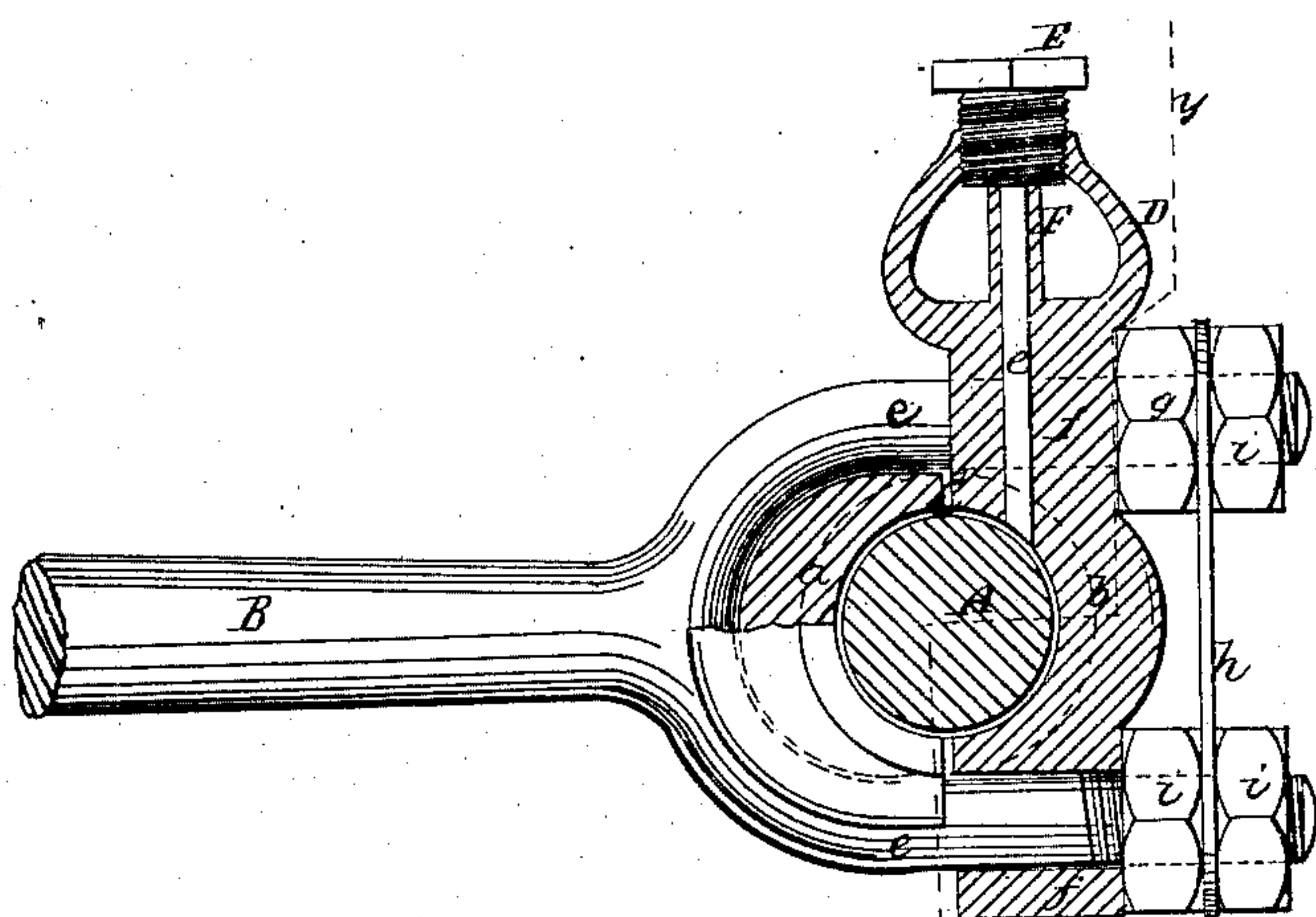
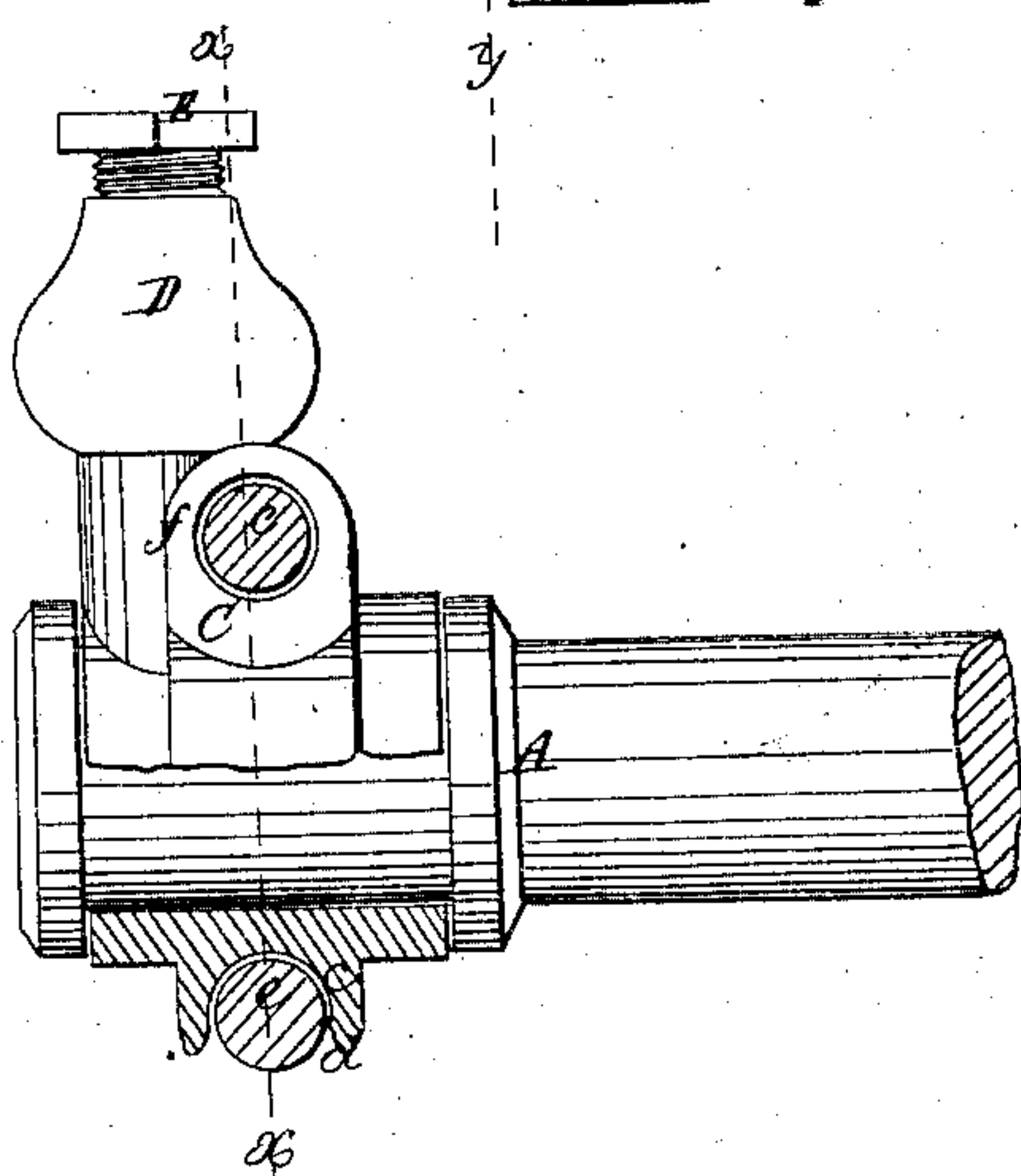


Fig. 3.



Fig. 2



Witnesses

J. A. Jackson  
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## United States Patent Office.

THOMAS S. BROWN, OF POUGHKEEPSIE, NEW YORK, ASSIGNOR TO HIMSELF AND JOHN P. ADRIANCE, OF THE SAME PLACE.

Letters Patent No. 62,601, dated March 5, 1867.

### IMPROVED LUBRICATING DEVICE.

The Schedule referred to in these Letters Patent and making part of the same.

#### TO ALL WHOM IT MAY CONCERN:

Be it known that I, THOMAS S. BROWN, of Poughkeepsie, in the county of Dutchess, and State of New York, have invented a new and improved Self-Oiling Device for crank-pins and other journals of machinery; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a side sectional view of my invention taken in the line *x x*, fig. 2.

Figure 2, a front sectional view of the same, taken in the line *y y*, fig. 1.

Figure 3, an under view of an inverted plan of the stopper of the oil fountain.

Similar letters of reference indicate like parts.

The object of this invention is to obtain a self-oiling device for crank-pins and other journals of machinery, which have either a rotary or reciprocating motion, to keep the oil in the fountain in a sufficient state of agitation to cause the same to be fed to the journal in requisite quantity to insure perfect lubrication.

The accompanying drawings represent the invention applied to a crank-pin or crank journal, which is designated by A, the pitman or connecting-rod being designated by B, and C representing the bearing which encompasses the journal A. The bearing C is composed of two parts, *a b*, the part *a* having a circumferential projection, *c*, at its centre, grooved, as shown at *d*, to receive the prongs *e e* of the pitman or connecting-rod B. The other part, *b*, of the bearing is cast or provided with lugs or ears, *f f'*, through which the prongs *e e* of the pitman or connecting-rod pass, said prongs having screw-threads cut on them to receive nuts, *g*, a plate, *h*, being fitted on the prongs at the outer sides of the nuts *g*, and nuts *i* screwed on the prongs at the outer side of the plate *h*, as shown clearly in fig. 1. By this arrangement it will be seen that the parts *a b* of the bearing are firmly secured to the journal A, and the pitman secured to the bearing. The part *b* of the bearing is cast or otherwise provided with an oil-chamber, D, having a screw-plug or stopper, E, in its upper end, and F is a tube extending up within the oil-chamber, and communicating with a passage, *c*, which extends downward through the part *b* of the bearing, so as to convey oil from the chamber D down to the journal A, as clearly shown in fig. 1. The under surface of the plug or stopper E has a groove, *j*, made centrally across it, with a recess or cavity, *k*, at its centre, which recess or cavity is directly over the tube F when the plug or stopper E is screwed into the oil-chamber D. The chamber D is supplied with oil or other suitable lubricating material, and the oil in said chamber, as the crank-pin or journal, A, rotates or otherwise moves will be agitated and thrown against the lower end of the plug or stopper E, and the groove *j* will convey the oil over the tube F, the former dropping into the latter which conveys it to the journal A.

This invention is applicable to all journals of machinery which have motion sufficient to cause the oil to be thrown against or brought in contact with the lower end of the plug or stopper over the tube F. The operation is sure and efficient. There can be no over supply or waste of oil, and the perfect lubrication of the journal is rendered certain as long as any oil is contained in the chamber D.

I claim as new, and desire to secure by Letters Patent—

The chamber D, in the part *b* of the bearing C, through which extends the tube F, communicating with the passage *c*, in combination with the plug E and journal A, arranged and operating substantially as herein described and for the purpose specified.

I further claim the plug or stopper E of the oil-chamber D, grooved at its under side, in combination with the tube F and passage *c* in the bearing, substantially as and for the purpose specified.

THOS. S. BROWN.

Witnesses:

ROBT. N. PALMER,  
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