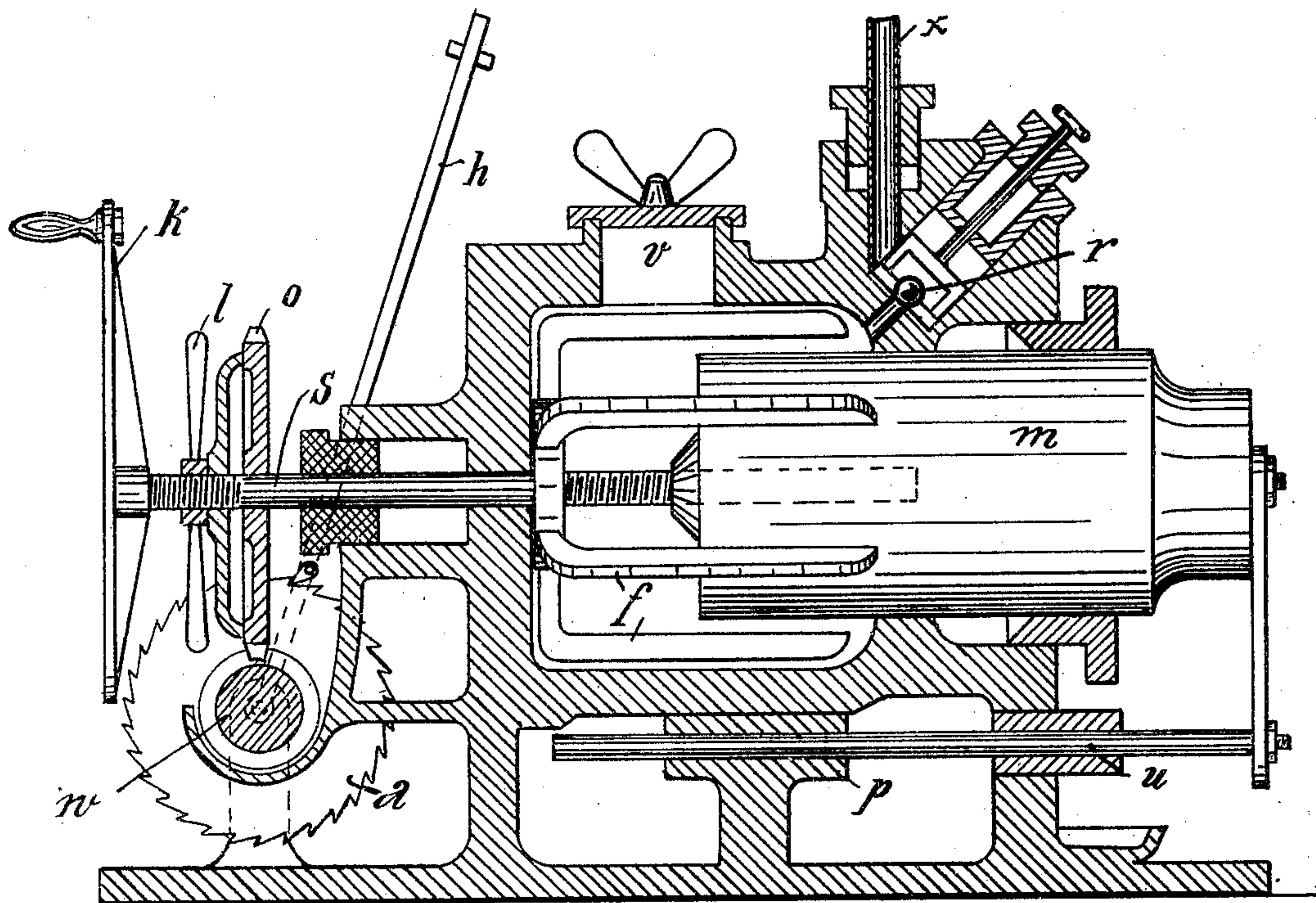


No. 798,184.

PATENTED AUG. 29, 1905.

P. HOPPE & H. J. EGGERS.
HORIZONTAL LUBRICATING PRESS.

APPLICATION FILED MAR. 10, 1904.



Witnesses:

J. A. Nees

H. Eckert

Inventors:

Paul

Hoppe.

Heinrich Jacob Eggers

UNITED STATES PATENT OFFICE.

PAUL HOPPE AND HEINRICH JACOB EGGERS, OF HAMBURG, GERMANY.

HORIZONTAL LUBRICATING-PRESS.

No. 798,184.

Specification of Letters Patent.

Patented Aug. 29, 1905.

Application filed March 10, 1904. Serial No. 197,601.

To all whom it may concern:

Be it known that we, PAUL HOPPE and HEINRICH JACOB EGGERS, subjects of the German Emperor, and residents of Hamburg, Germany, have invented certain new and useful Improvements in Horizontal Lubricating-Presses, of which the following is a specification.

The subject of the present invention is a horizontal lubricating-press with a stirring device for lubricating steam-cylinders with a mixture of oil and graphite. The stirring devices hitherto known were not suited for horizontal lubricating-presses.

This invention now consists in the arrangement that with the screw-spindle there is connected a stirring device whose arms, in consequence of the rotation of the screw-spindle, brush along between the piston and the wall of the cylinder and carry off all deposits which may settle in the lower part of the cylinder to the upper part, so that a thorough mixing of the oil with the solid parts is attained. The graphite can therefore not accumulate and form a deposit.

Similar letters refer to similar parts throughout the drawing.

The invention is illustrated on the accompanying drawing in a longitudinal section.

At *v* the lubricating medium is fed into the press-cylinder. *r* is a non-return valve, and *x* the outlet for the oil. The device is actuated by the lever *h*, which drives, by means of the ratchet-wheel *a*, the worm *w* and through this the worm-wheel *o*. By tightening the nut *l* the spindle *s* is coupled with the worm-wheel *o*, so that the spindle rotates with the stirrer *f f*. The piston *m* moves slowly into the press-cylinder and presses the mixture of oil to the spot where the lubricating takes place. By means of the crank *k* the piston after loosening the nut *l* can be

screwed back. *p u* represent a guide for the piston.

What we claim as our invention, and desire to secure by United States Letters Patent, is—

1. In a lubricating-press, the combination of a cylinder having one end provided with a packing device, a piston projecting into said cylinder through said packing device and having a smaller diameter than the cylinder and thereby leaving an annular space between itself and the internal wall of the cylinder, a stirrer arranged in said cylinder and having arms projecting into the annular space between the piston and the said wall of the cylinder, means for supporting said stirrer, means for rotating said stirrer, and means for moving the piston, substantially as and for the purpose set forth.

2. In a lubricating-press, the combination of a cylinder having packing devices at both ends, a piston projecting into said cylinder through one of said packing devices and having a smaller diameter than the cylinder and thereby leaving an annular space between itself and the internal wall of the cylinder, a spindle projecting into said cylinder through the other packing device, a stirrer mounted in the cylinder on the inner end of said spindle and having arms projecting into the annular space between the piston and the said wall of the cylinder, means for rotating said spindle, and means for moving the piston, substantially as and for the purpose set forth.

In testimony whereof we have signed our names to this specification in the presence of two subscribing witnesses.

PAUL HOPPE.

HEINRICH JACOB EGGERS.

Witnesses:

CARL WILLY ANDREAS BERGEN,
T. A. NEES.