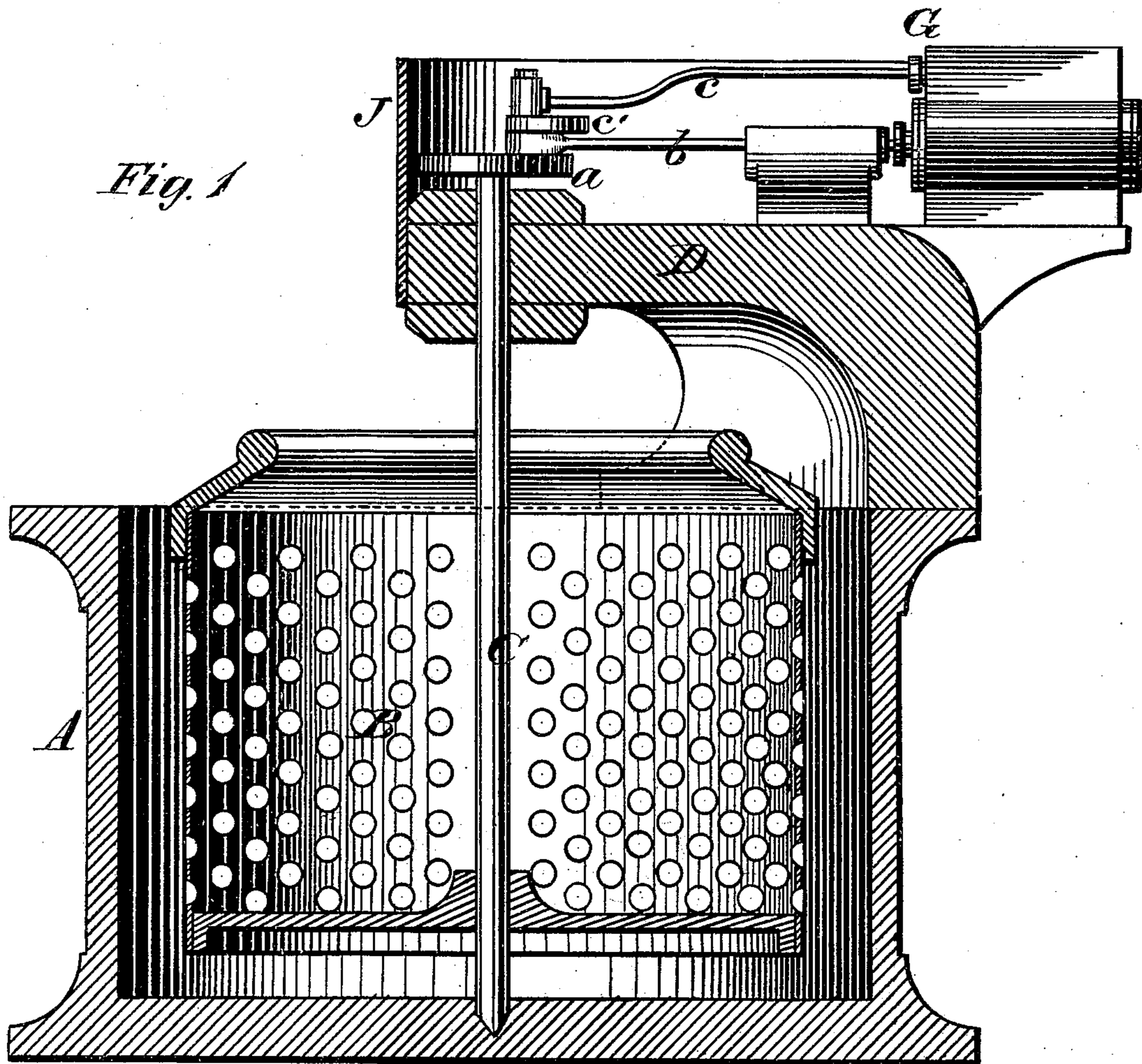


W. P. UHLINGER.
HYDRO-EXTRACTORS.

No. 181,500.

Patented Aug. 22, 1876.



WITNESSES
E. H. Bates
A. M. Pool

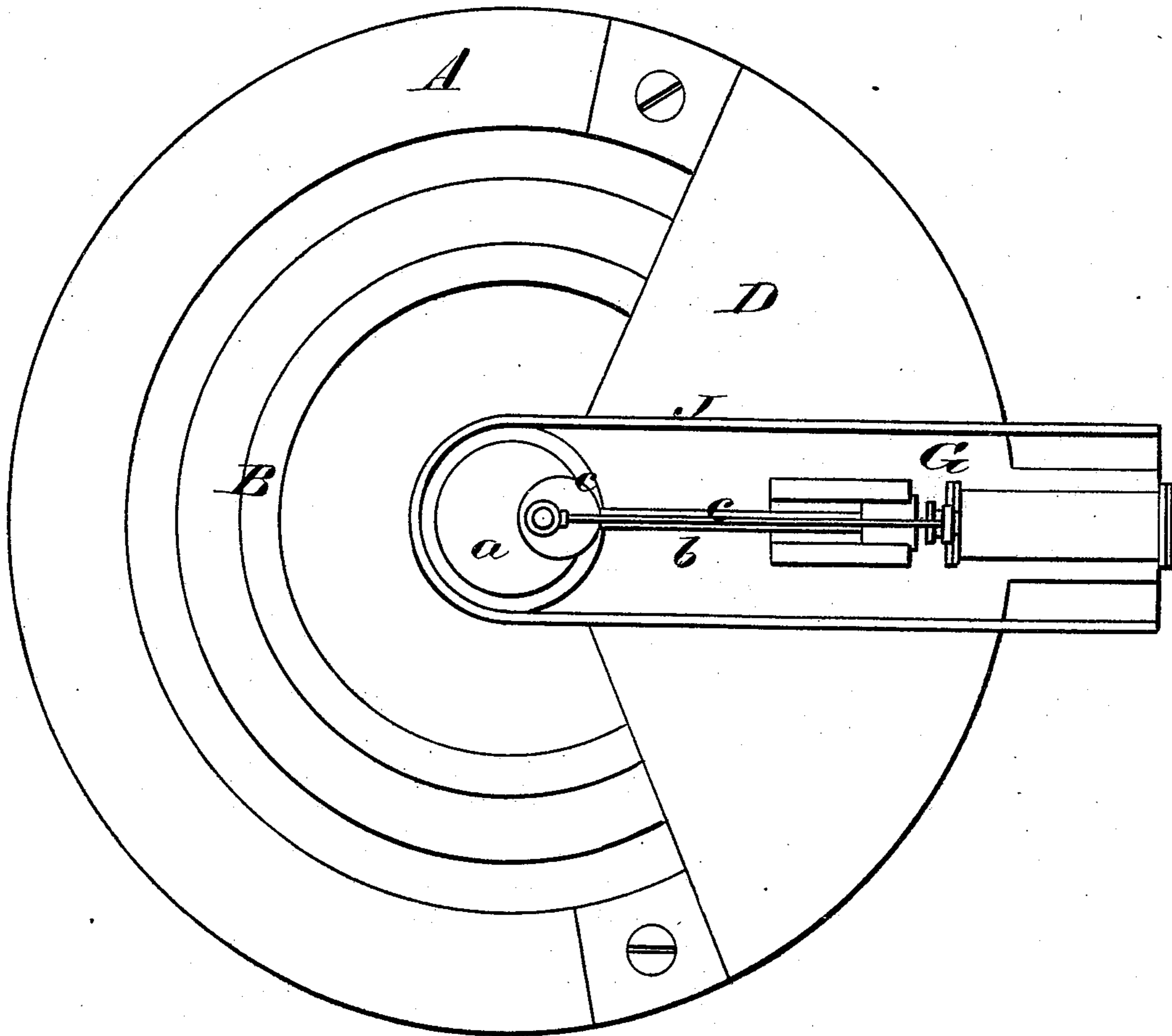
INVENTOR,
W. P. Uhlinger
Chipman & Hornum
ATTORNEYS.

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Fig. 2



WITNESSES
E. H. Bates
J. M. Pool

INVENTOR
W. P. Uhlinger.
Chipman Hooper & Co.
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UNITED STATES PATENT OFFICE.

WILLIAM P. UHLINGER, OF PHILADELPHIA, PENNSYLVANIA.

IMPROVEMENT IN HYDRO-EXTRACTORS.

Specification forming part of Letters Patent No. **181,500**, dated August 22, 1876; application filed December 31, 1875.

To all whom it may concern:

Be it known that I, WILLIAM P. UHLINGER, of Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented a new and valuable Improvement in Hydro-Extractors; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a longitudinal vertical section of my hydro-extractor, and Fig. 2 is a plan view thereof.

This invention has relation to machines which are designed for drying washed wool and other material by centrifugal force; and the nature of my invention consists in a segmental overhanging bracket, which is rigidly secured to the top of a cylindrical tub, and adapted to support a steam-engine, and also to afford the upper bearing for the shaft of the basket, which is rotated by said engine, as will be hereinafter explained.

In the annexed drawings, A designates a strong cylindrical tub of suitable capacity, and B is a reticulated basket for containing the material to be dried. This basket is secured to a vertical shaft, C, which is stepped on the bottom of the tub A, and which is journaled in an overhanging bracket, D. On the upper end of the shaft C is a circular crank-wheel, *a*, to the wrist-pin of which the pitman-rod *b* of an engine, G, is connected. The slide-valve rod *c* is connected to a wrist-pin on an eccen-

tric, *c'*, which is secured to the wrist-pin on the crank-wheel *a*. The engine-bed and the slideway-bed are rigidly secured upon the horizontal portion of the overhanging bracket D, in a plane radiating from the axis of the shaft C. The bracket D is strongly constructed, and rigidly secured to the top of the tub A, so that it will not vibrate during the operation of the engine. The horizontal overhanging portion of the bracket D is sufficiently raised above the top of the basket B to allow free access to this basket, for filling it and removing articles from it. The guard J prevents injury from the escape of oil from the engine.

I am aware that it is not new to mount a steam-motor on a support extending entirely across the top of a centrifugal hydro-extractor, and this I do not claim.

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

The combination of a tub, A, perforated basket B, having an imperforated bottom, shaft C, and detachable segmental overhanging bracket D, secured to the top of the tub A, and affording the upper bearing for the shaft C, and supporting the motor which revolves the shaft and basket, substantially as described, and for the purpose set forth.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

WILLIAM P. UHLINGER.

Witnesses:

GEORGE E. UPHAM,
F. J. MASI.