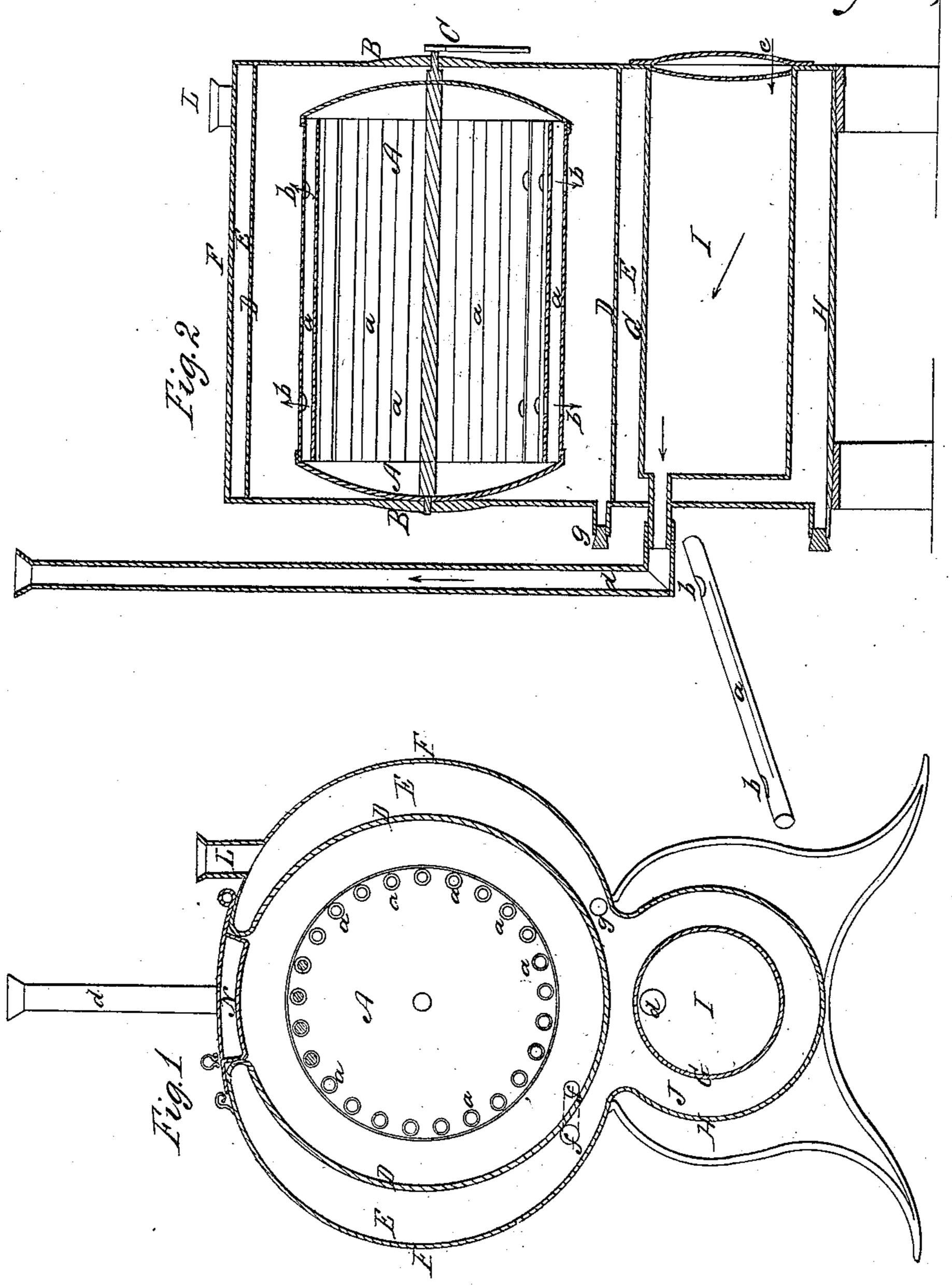
## [00mbs8/1250m,

Mashing Machine

Nº 25,177.

Patesited Aug. 23, 1859.



Witnesses; FIblimmons Irufch Beek

Towenters; Henry Mollon

## UNITED STATES PATENT OFFICE.

H. M. COOMBS AND L. W. NELSON, OF PORTLAND, OREGON.

WASHING-MACHINE.

Specification of Letters Patent No. 25,177, dated August 23, 1859.

To all whom it may concern:

Be it known that we, Henry M. Coombs and Levi W. Nelson, both of Portland, in the county of Multnomah and Territory of Oregon, have invented a new and useful Improvement in Washing-Machines; and we do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, of which—

Figure 1, represents a vertical transverse section of the several parts. Fig. 2, is a longitudinal vertical section through the mathematical section through the mathematical section the hollow slats detached from the machine.

Our invention consists in the arrangement of a peculiarly constructed cylinder within a cylindrical chamber surrounded by water; 20 and also in arranging below the same a stove, in such a manner that it will answer the two-fold purpose of heating the water in the boiler and drying the clothes after they have been washed and rinsed in the same 25 machine, described as follows:

The clothes to be washed are placed within an open work cylinder A, composed of hollow slats or bars a, a. These slats have orifices b, b, near either end of the same, from which air is carried down and discharged into the water, during the operation of washing. This cylinder thus constructed is pivoted to either end of the exterior casing B, and is revolved by a crank C, on the 35 outside and in front of the machine. Surrounding this washing cylinder A, is a cylinder D, which separates the washing compartment from the surrounding boiler space E, formed by an elliptical casing F. Below 40 this are arranged two cylinders G, H, one within the other; these form the fire chamber I, and boiler space J, communicating

with the water of the boiler above. The water is fed to the boilers through funnel I; on top of the machine. c, is a draft hole in the  $_{45}$ fire door, and d, is the smoke pipe. When the water in the boilers is hot, and the clothes placed in the cylinder A, and the door or lid N, closed down and fastened, this water is let into the washing compartment 50 by a pipe f,—the holes of which are seen in the drawings—until there is sufficient water to wash the clothes; the communication is then cut off by a cock, and the cylinder A, rotated swiftly until the clothes are thor- 55 oughly washed. When this is effected the dirty water is drawn off through the orifice g, and fresh water is then let into the cylinder from the boiler and the clothes are rinsed. After this operation, and the rinsing 60 water drawn off, the cylinder is rotated swiftly for a few minutes when the clothes are taken out perfectly dry, the hot air within the chamber being heated by the stove below; and the constant rotation of 65 the cylinder serves in a great measure to "wring" the water from the clothes at the same time the hot air is performing the office of drying.

What we claim as our invention and de- 70 sire to secure by Letters Patent, is—

The construction of the clothes cylinder A, surrounded with air thues having orifices for discharging air into the water in the manner substantially set forth, in combina-75 tion with the drying and washing cylinder D, and fire chamber I, all arranged and combined in the manner and for the purposes hereinabove specified.

HENRY M. COOMBS. LEVI W. NELSON.

Witnesses:
F. H. Simmons,
Joseph Beck.