

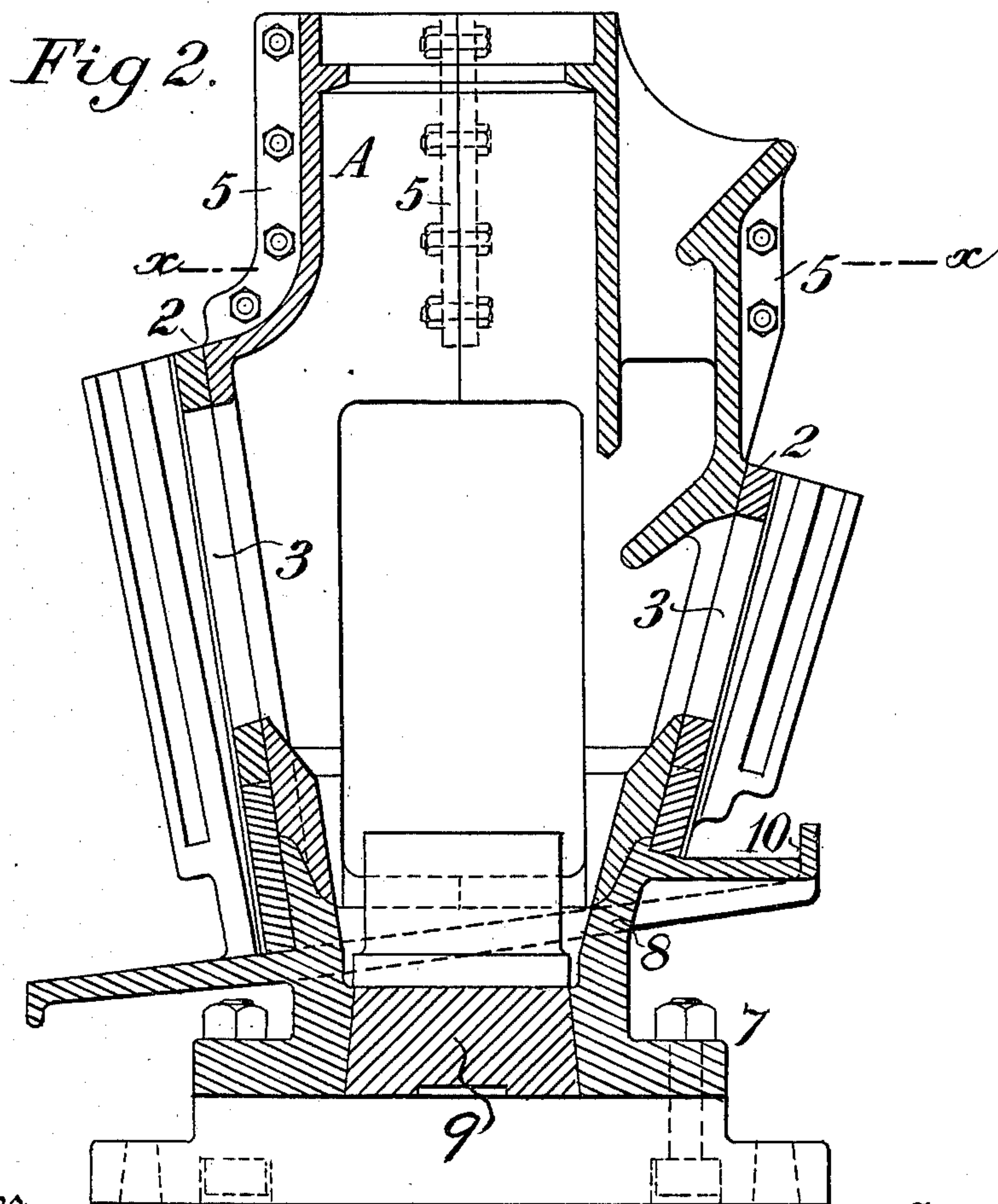
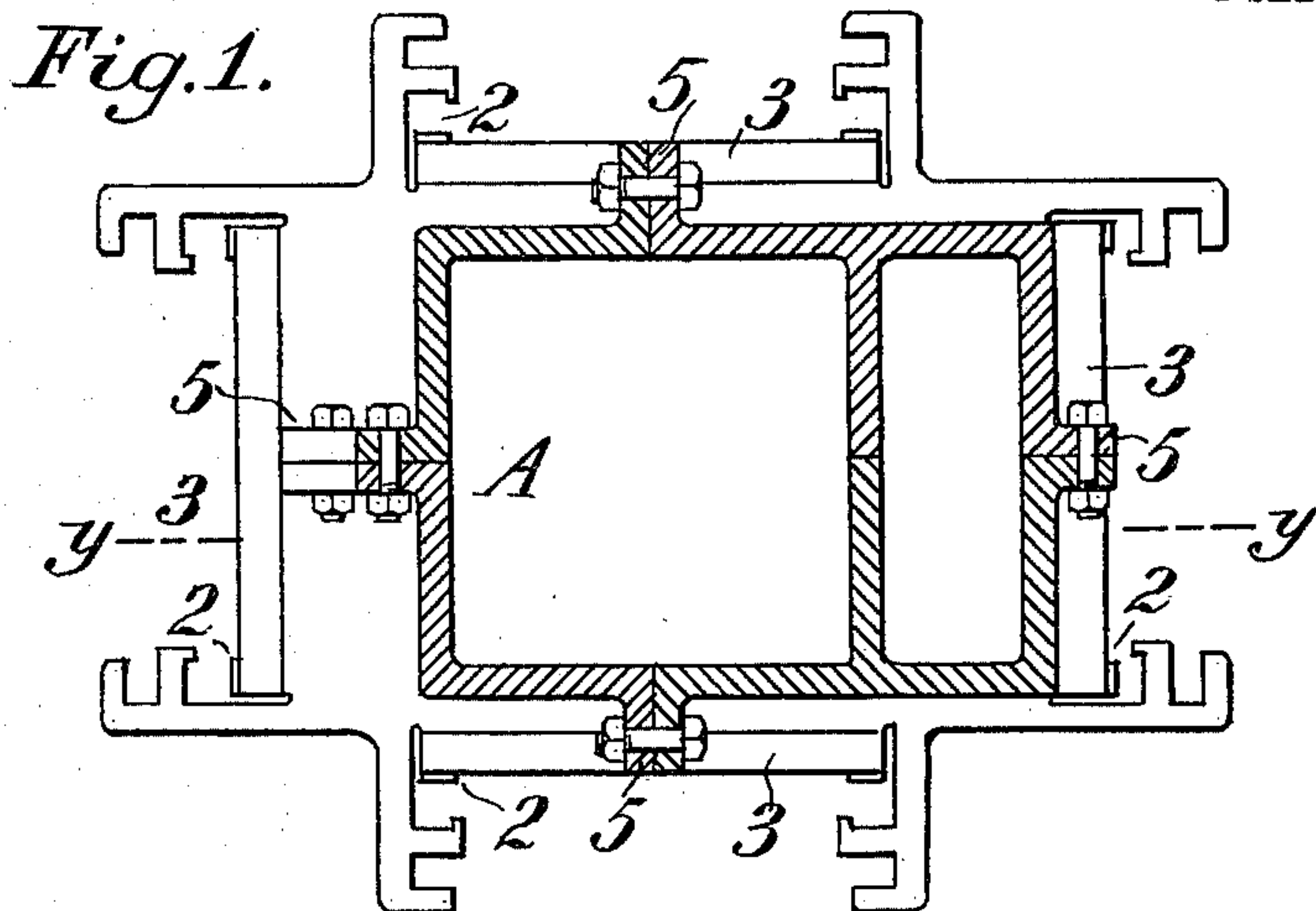
No. 735,374.

PATENTED AUG. 4, 1903.

J. H. HENDY.
STAMP MILL MORTAR.
APPLICATION FILED JULY 8, 1902.

NO MODEL.

2 SHEETS—SHEET 1.



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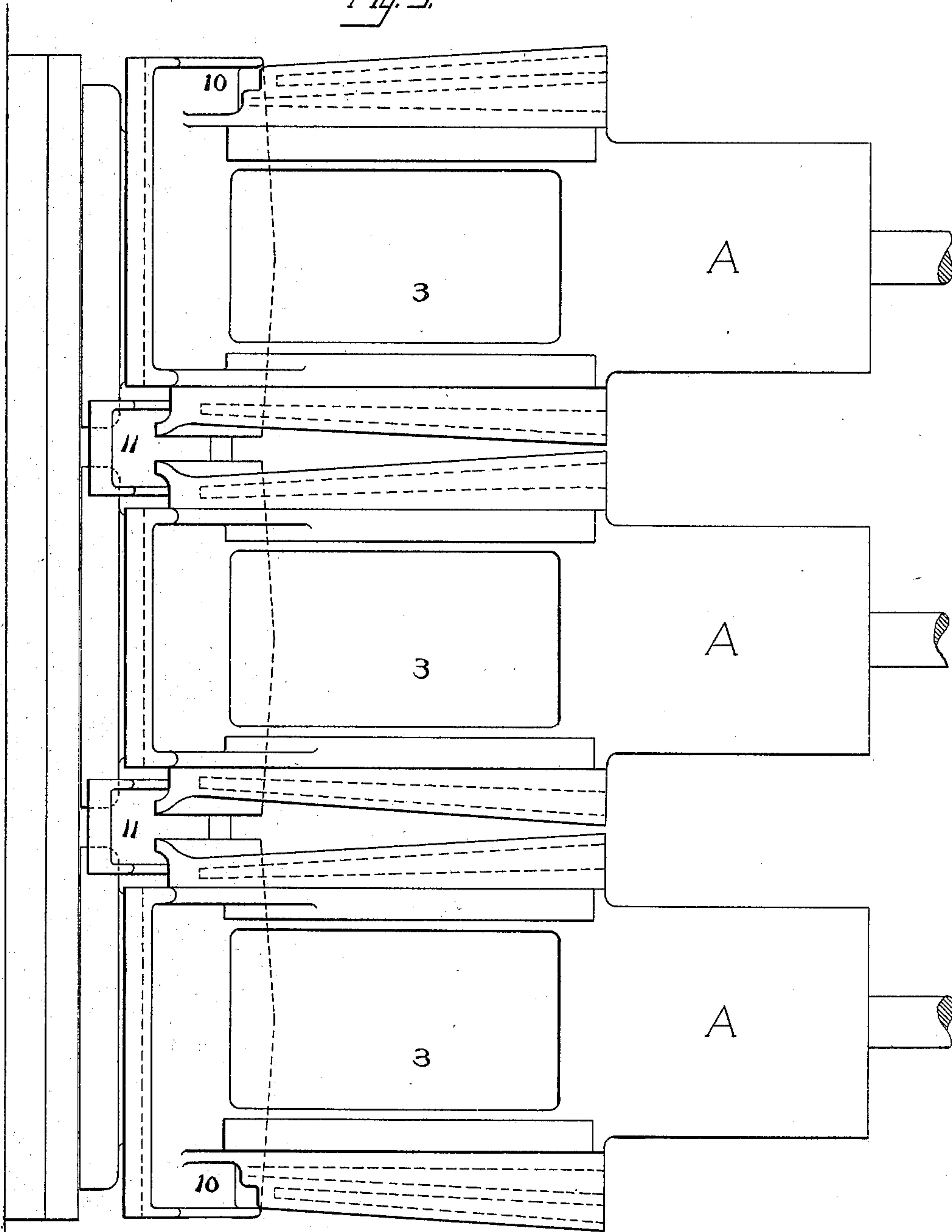
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2 SHEETS—SHEET 2.

Fig. 3.



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UNITED STATES PATENT OFFICE.

JOHN H. HENDY, OF SAN FRANCISCO, CALIFORNIA.

STAMP-MILL MORTAR.

SPECIFICATION forming part of Letters Patent No. 735,374, dated August 4, 1903.

Application filed July 8, 1902. Serial No. 114,822. (No model.)

To all whom it may concern:

Be it known that I, JOHN H. HENDY, a citizen of the United States, residing in the city and county of San Francisco, State of California, have invented an Improvement in Stamp-Mill Mortars; and I hereby declare the following to be a full, clear, and exact description of the same.

My invention relates to improvements in mortars for stamp-mills.

It consists of single independent sectional mortars for each individual stamp, said mortars being arranged side by side upon a sole-plate singly or common to a series of mortars and stamps.

My invention also comprises details of construction which will be more fully explained by reference to the accompanying drawings, in which—

Figure 1 is a horizontal section on the line *xx*, Fig. 2. Fig. 2 is a vertical section on the line *yy*, Fig. 1. Fig. 3 is a front view of these mortars with intervening discharge-troughs.

It is customary in the construction of mortars of stamp-mills to make each mortar of sufficient size to receive the dies for a plurality of stamps, which are raised by cams mounted upon an overhead shaft and allowed to drop successively each upon its own die. These mortars are commonly made in a single piece and are very heavy, and it is not possible to transport them into localities where there are no roads and only rough paths.

It is the object of my invention to so construct the mortars that they may be taken to pieces and reduced to the smallest possible weight, so that they can be transported by pack-animals.

As shown in the accompanying drawings, A represents the mortar sides of the usual or any suitable shape. These sides are provided with approximately vertical inclined channels 2, adapted to receive the screens 3, through which the pulverized material passes when it is sufficiently reduced. I prefer to make these discharge-openings upon all or a plurality of sides of the mortar, so that the pulverized material can be rapidly disposed of. If desired, this portion of the mortar may be made in a single piece; but it is preferably made in sections having lugs or flanges

5, adapted to receive bolts, by which the four sides are secured together into a single structure.

The base 7 has upwardly-extending sides 8, to which the lower edges of the mortar sides are connected or otherwise secured. The central portion of this base may be open, and a center piece 9 is adapted to fit in this open space, forming the bottom of the mortar, and upon this central piece the die is carried, and the ore being fed into the mortar in any usual or suitable manner the single stamp acts upon it. These single mortars may then be attached to a sole plate or plates so disposed that a series of the mortars may be arranged beneath the cam-shaft by which the stamps are actuated, thus providing for a mill with any desired number of stamps.

The essence of the invention consists in constructing the mortar in separate sections, all of which are sufficiently light to be easily packed and transported.

Receiving-troughs 10 are cast upon the sides of the mortar below the screen-openings, those at the back sloping both ways to connect with those at the sides. The inner sides of the outer mortars of a series and both sides of the intermediate ones have no troughs or splash-boards outside the screens, but discharge directly into supplemental troughs 11, which incline to the front, where the pulverized material from all the discharges is delivered.

Having thus described my invention, what I claim, and desire to secure by Letters Patent, is—

1. In a stamp-battery, a mortar divided vertically into independent sections, each section of substantially right-angled form in cross-section and provided with projecting flanges; means detachably securing the sections together as a rigid whole; and an independent and separable base.

2. In a stamp-battery, a mortar divided vertically into independent sections having abutting flanges; means for detachably uniting said sections as a rigid whole, said sections having screen discharge-openings; a base detachably secured to the sections and having a central opening; and a die or piece fitting said opening to form a closure and bottom therefor.

3. In a stamp-battery, a series of independ-

ent mortars each adapted for a single stamp and divided vertically to form separable sections, said sections having abutting flanges; means detachably securing the sections of
5 each mortar, said sections having screen discharge-openings; a sole-plate common to the series of mortars; a receiving-trough rigid with the sides of the mortar below the screen-openings; the inner sides of the outer mortars
10 of the series and both sides of the intermediate mortars being devoid of troughs; and supplemental troughs receiving the output of said inner sides of the outer mortars and both sides of the said intermediate mortars.

15 4. A stamp-battery consisting of a plurality of independent sectional rectangular mortars, each divided in a central vertical plane to

form separable sections and each of said mortars adapted for a single stamp and each having a plurality of independent screen discharge-openings, a single sole-plate and means
20 securing the series of mortars contiguously thereto, inclined circumscribing receiving-troughs below the rear screens and the outer screens of the exterior mortars, and supplemental
25 troughs located between adjacent mortars to receive discharges directly from the screens upon the inner sides.

In witness whereof I have hereunto set my hand.

JOHN H. HENDY.

Witnesses:

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CHAS. E. TOWNSEND.