

(No Model.)

R. A. REGESTER.  
DEVICE FOR CASTING METAL.

No. 366,254.

Patented July 12, 1887.

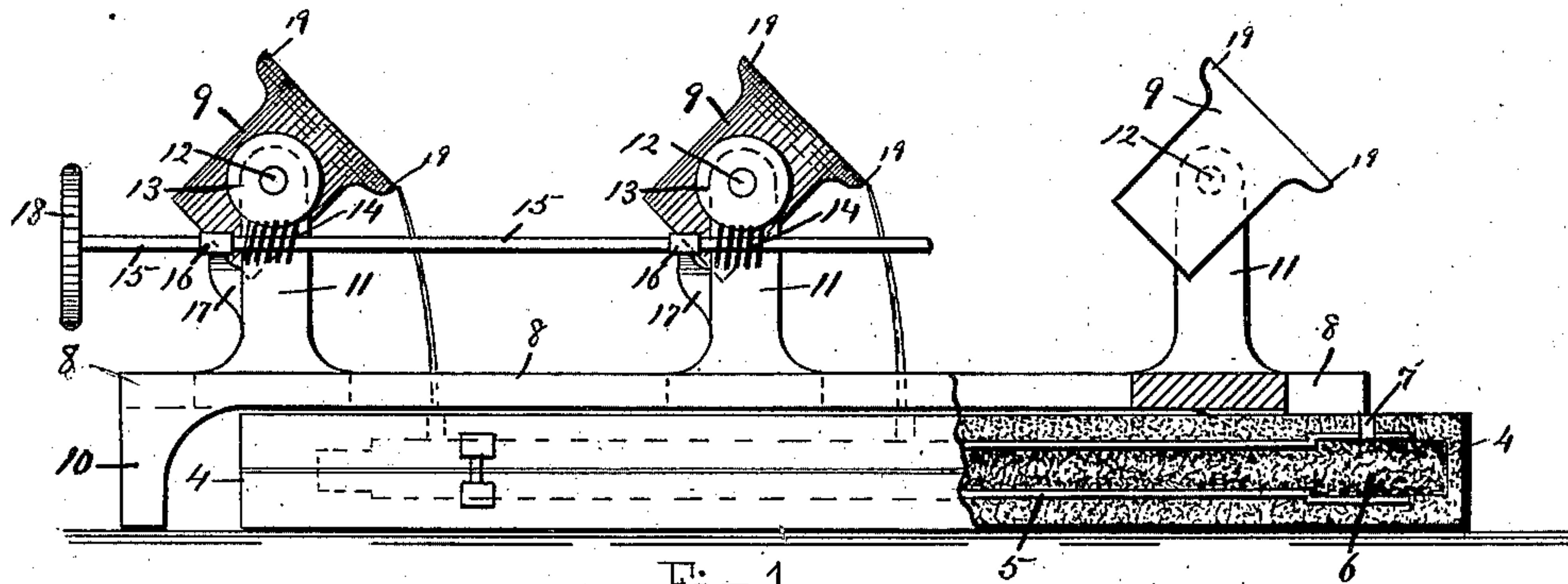


Fig. 1.

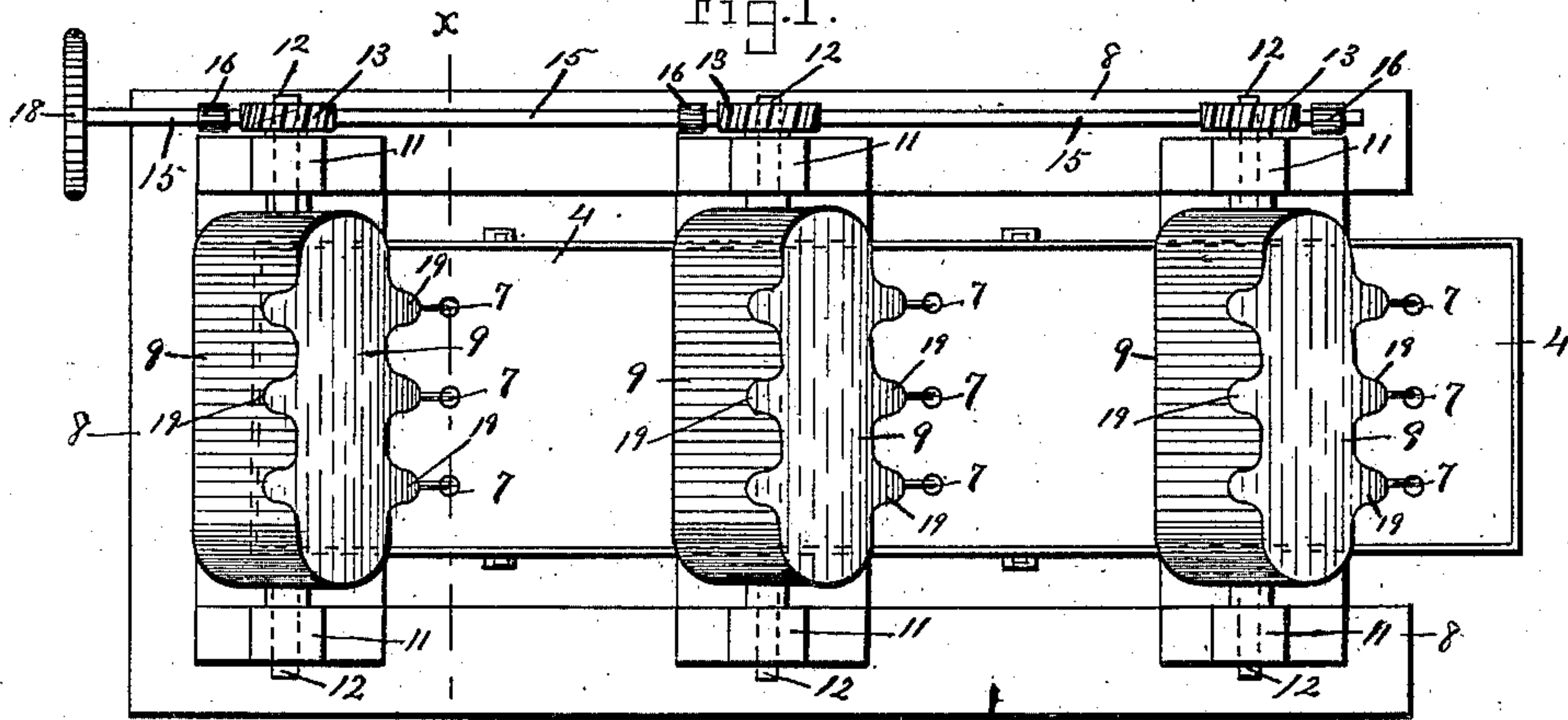


Fig. 2.

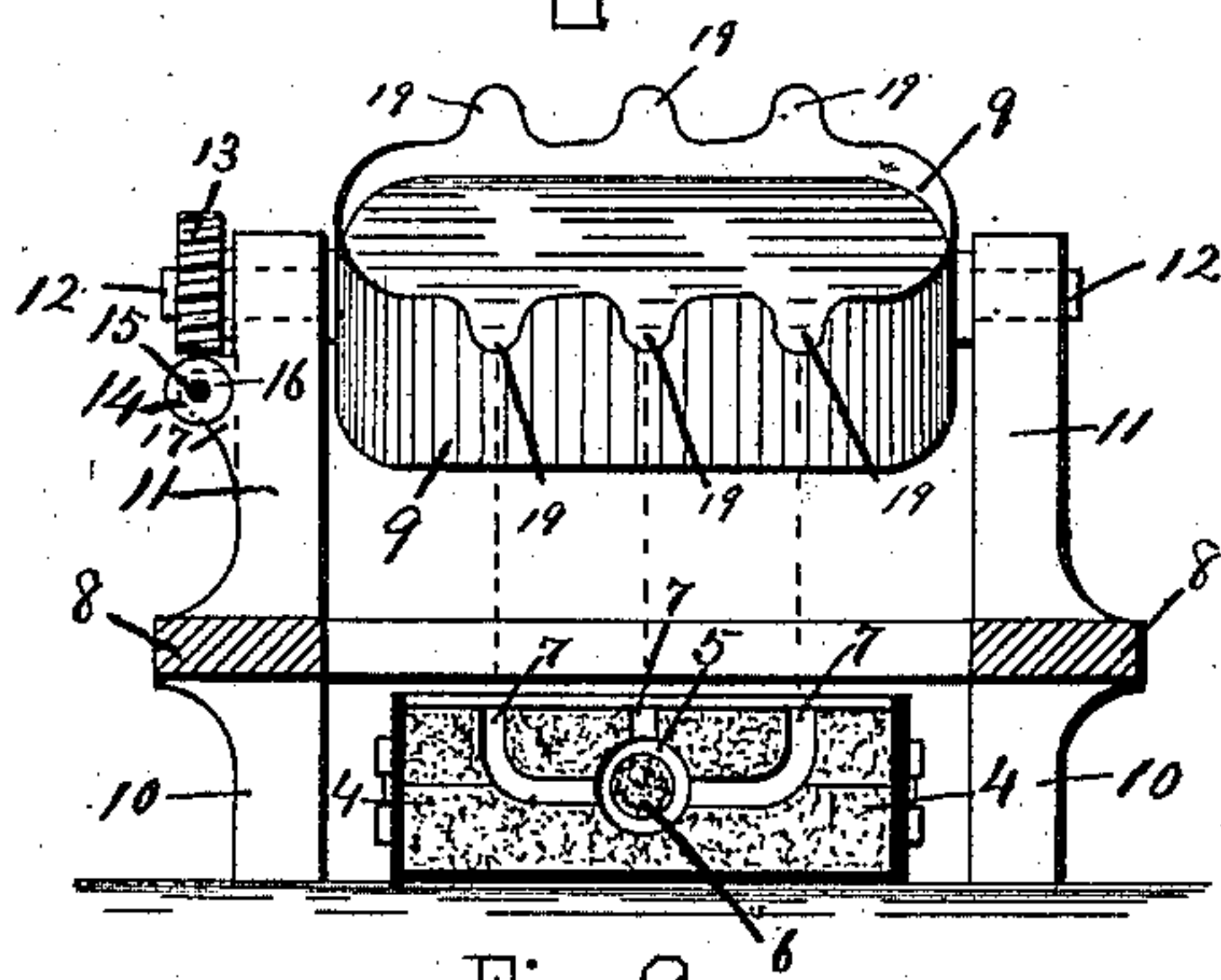


Fig. 3.

Witnesses.  
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# UNITED STATES PATENT OFFICE.

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## DEVICE FOR CASTING METAL.

SPECIFICATION forming part of Letters Patent No. 366,254, dated July 12, 1887.

Application filed November 19, 1886. Serial No. 219,422. (No model.)

*To all whom it may concern:*

Be it known that I, ROBERT A. REGESTER, a citizen of the United States, residing at Baltimore, in the State of Maryland, have invented certain new and useful Improvements in Devices for Casting Molten Metal; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to improvements in molders' pots for pouring molten metal in the process of casting, wherein is employed mechanism by which several pots are operated simultaneously, each pot being provided with two or more spouts or lips, whereby any number of gates with which the mold may be provided may be simultaneously supplied in one operation, thus in thin casting equally and momentarily distributing the molten metal and insuring a perfect and homogeneous casting.

In the further description of my invention reference is had to the accompanying drawings, in which—

Figure 1 is a side elevation of the device; partly in section. Fig. 2 is a plan of the device complete. Fig. 3 is a section through *x x*.

Similar figures refer to similar parts throughout the several views.

The figure 4 denotes an ordinary molder's flask, which contains the mold, a mold, 5, for a pipe being shown in this case, which is provided with the gates 7, the figure 6 denoting the core of the said mold. Placed over the said flask 4 is the frame 8, which provides the necessary support for the pots 9 and the mechanism to operate the said pots, the frame 8 being provided with the legs 10, which support the said frame in proper position above the flask 4. Integral with the frame 8 are the projections 11, which form the bearings for the trunnions 12 of the pots 9. One end of the trunnions 12 is provided with the worm gear-wheel 13, which is operated by the worm 14, that is attached to or is a part of the shaft 15, the said shaft 15 being supported by the bearings 16, which are formed by the brackets 17, integral with the projections 11. The

shaft 15 is further provided with the wheel 18 for operating by hand. The pots 9 are constructed in the oblong shape represented, and are provided with two or more spouts or lips, 19, whereby several streams may be poured simultaneously from the same pot.

The manner of operating is as follows: The mold is prepared in the usual manner, care being taken that the gates are placed in proper position to receive the streams from the spouts 19 of the pots 9. The frame 8, with the pots 9, being portable, is placed near the cupola, where the pots 9 are charged with the molten metal. In this position the pots 9 are tilted sufficiently by means of the wheel 18, the worm 14, and the worm gear-wheels 13, which are fixed to the trunnions 12, to cause a uniform stream to run from each of the spouts 19 of said pots. The frame 8, with the charged pots, is now lifted, either by hand or by cranes, and placed over the flask 4 in such a position that when the pots are tilted by an operator by means of the wheel 18 the stream from each spout 19 will run into its respective gate 7.

In the operation of filling the pots at the cupola the metal in each pot is brought to a uniform height, thereby, when the pots are placed over the mold and tilted, causing the stream to flow simultaneously and uniformly into each gate. When the mold is full, the frame 8 is carried to a second mold and the operation repeated, and so on until the charges in the pots are exhausted.

In lieu of the worm-gearing for tilting the pots 9, common gearing, levers, or any of the common devices whereby the pots may be tilted in unison may be employed for this purpose.

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

1. In a device for casting molten metal, the combination of two or more pots, 9, and mechanism to operate the said pots in unison, for the purpose set forth.

2. In a device for casting molten metal, the combination of the pots 9, mechanism to operate the said pots in unison, and the frame 8, for the purpose set forth.

3. In a device for casting molten metal, the combination of the pots 9, mechanism to operate the said pots, the frame 8, and the mold 5, with its gates 7 so placed that each gate will receive a stream from one of the spouts 19, with which the pots 9 are provided, for the purpose set forth.

In testimony whereof I affix my signature in presence of two witnesses.

ROBERT A. REGESTER.

Witnesses:

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JNO. T. MADDOX.