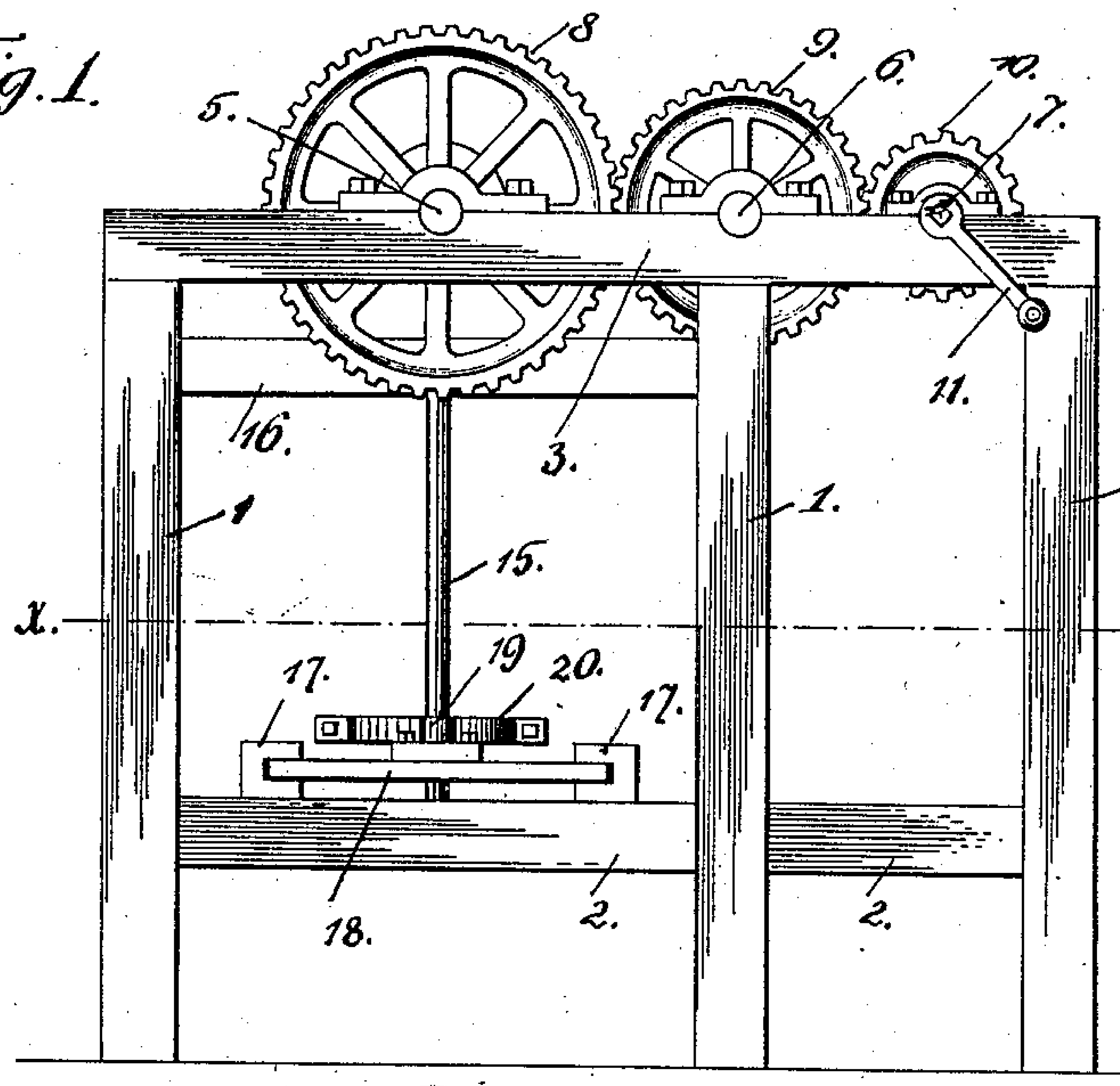
No. 889,633. PATENTED JUNE 2, 1908.

A. A. PAULY.

APPARATUS FOR FORMING ARTIFICIAL BUILDING BLOCKS.

APPLICATION FILED FEB. 26, 1907.

Fig. 1.



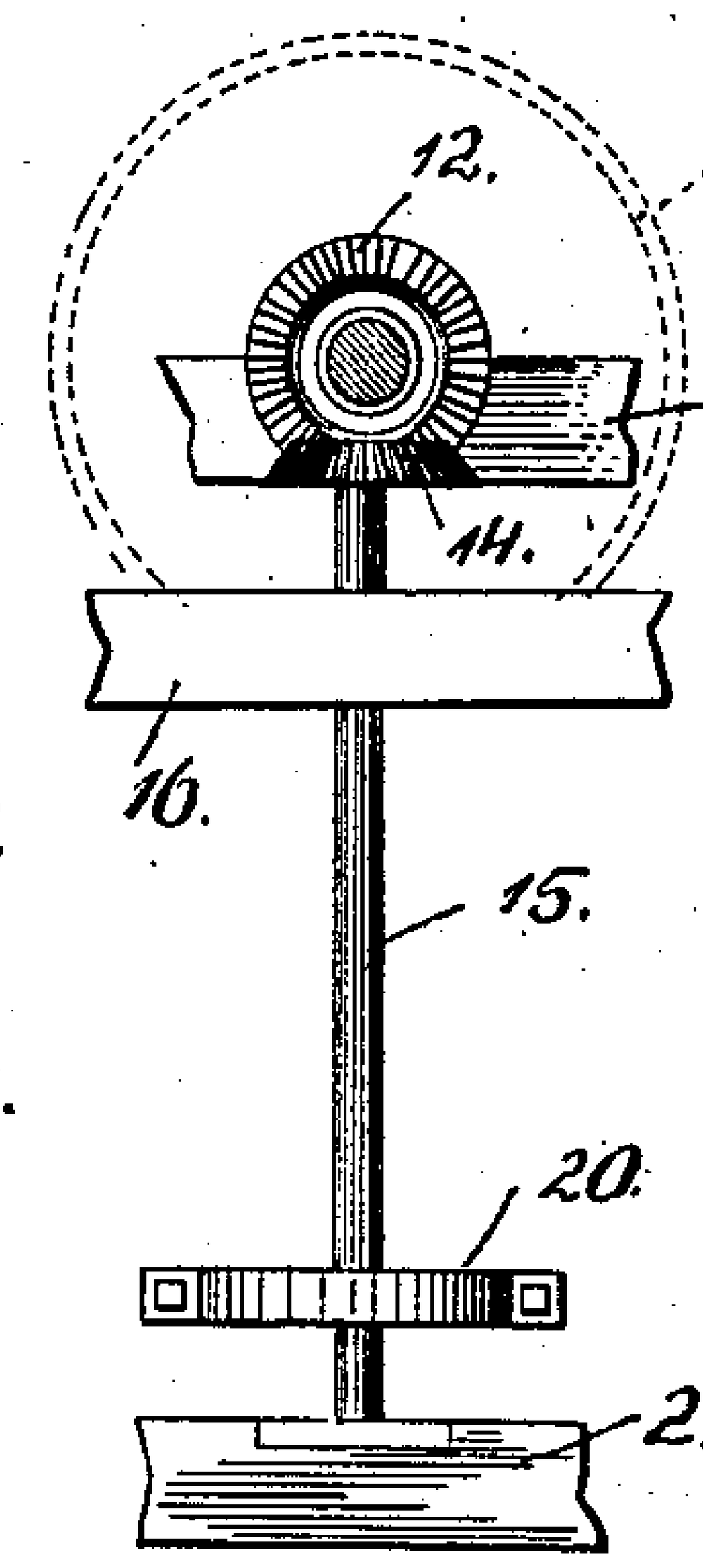


Fig. 3.

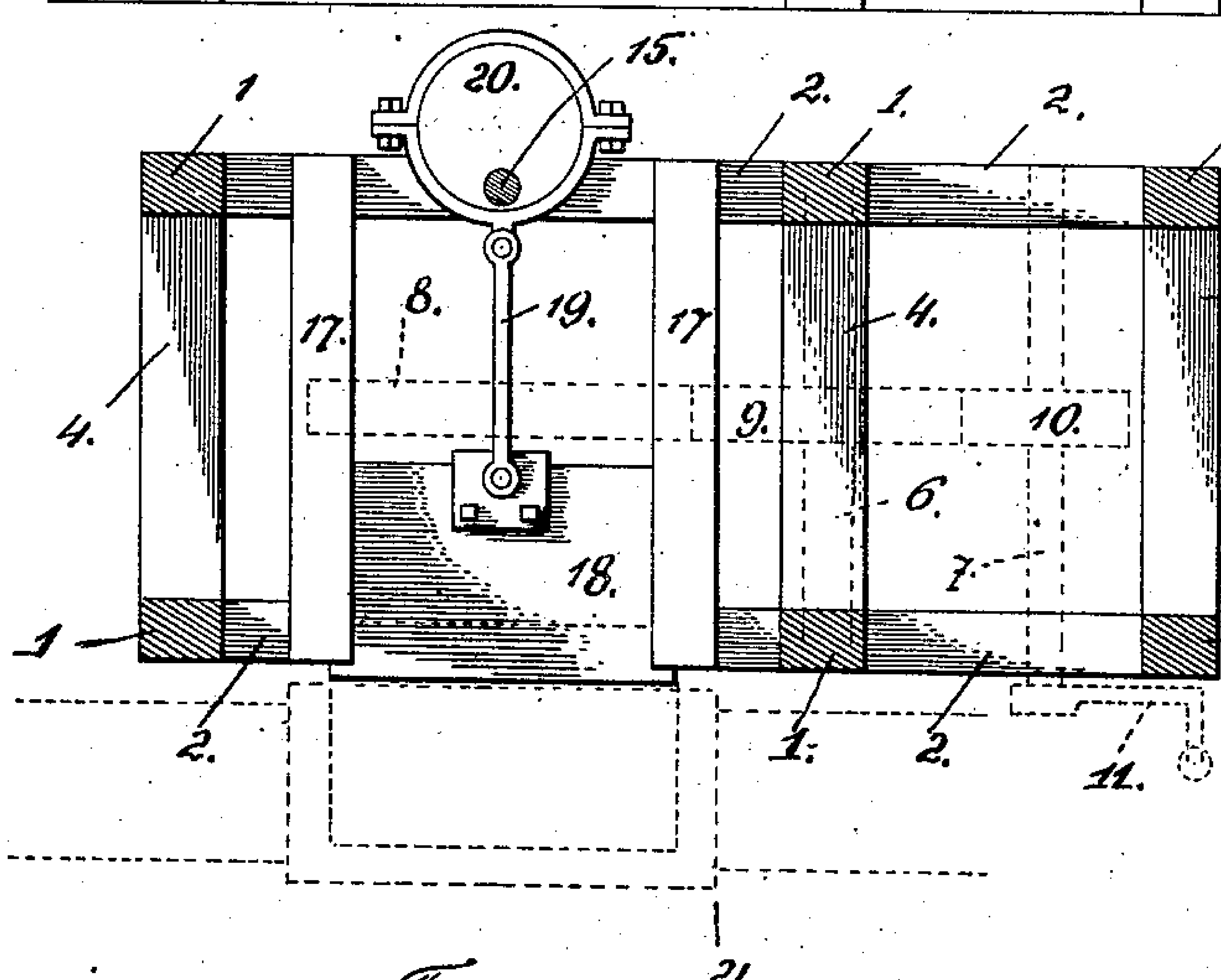


Fig. 2.

WITNESSES:

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APPARATUS FOR FORMING ARTIFICIAL BUILDING-BLOCKS.

No. 889,633. Specification of Letters Patent. Patented June 2, 1908.

Application filed February 26, 1907. Serial No. 359,520.

To all whom it may concern:

Be it known that I, ALBERT A. PAULY, a citizen of the United States of America, residing at Youngstown, in the county of Mahoning and State of Ohio, have invented certain new and useful Improvements in Apparatus for Forming Artificial Building-Blocks, of which the following is a specification, reference being had therein to the accompanying drawing.

This invention relates to an apparatus for forming artificial building blocks from concrete or similar plastic material.

The invention has for its object the provision of positive and reliable means for distributing and smoothing concrete in a mold.

To this end, I have devised a simple and inexpensive mechanism particularly designed for that type of apparatus disclosed in Patent No. 822,013 granted to me May 29th, 1906. The invention disclosed in this patent consists of a plurality of frames beneath which a car moves carrying molds. In some of the frames are mounted dies or plungers, which are brought into contact with the molds upon the cars at predetermined times, to tamp and thoroughly press the concrete within the molds.

The present invention aims to provide manually manipulated means in connection with one of said frames for easily and quickly smoothing the exposed surface of the tamped concrete, said means consisting of a reciprocatory plate suitably guided within the frame.

The detail construction entering into my invention will be more readily understood as the invention is described in detail and referring to the drawing forming part of this specification, like numerals of reference designate corresponding parts throughout the several views, in which:—

Figure 1 is a side elevation of a frame or portion of the apparatus equipped with my improved mechanism, Fig. 2 is a horizontal sectional view of the same, Fig. 3 is an elevation of a portion of the operating mechanism.

In the accompanying drawings, I have illustrated a frame work consisting of standards 1 connected by longitudinally disposed beams 2 and 3, and transverse beams 4.

Journaled transversely upon the beams 3 are shafts 5, 6 and 7 carrying meshing spur wheels 8, 9 and 10 said spur wheels being manually rotated through the medium of a crank 11 carried by the end of the shaft 7. Upon the end of the shaft 5 is mounted a beveled gear wheel 12 adapted to mesh with a beveled gear wheel 14 carried by the upper end of a vertically disposed shaft 15, said shaft being journaled in a beam 16 and one of the beams 2 upon one side of the apparatus.

Arranged upon the beams 2 of the apparatus are guide ways 17 for a plate 18, said plate being connected by a link 19 to an eccentric 20 carried by the shaft 15.

In dotted lines of Fig. 2 of the drawings, I have illustrated the relative position of a mold car 21 with respect to the frame work, and after said mold car has been positioned in front of the guide ways 17, the crank 11 is rotated to impart a rotary movement to the shaft 15 and a reciprocating movement to the plate 18. The plate is adapted to pass back and forth over the top of the mold car and smooth and even the exposed surfaces of the tamped concrete, thus providing the finished product with a smooth and even face.

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

In an apparatus of the class described, a supporting frame, a horizontally-disposed shaft journaled upon the top thereof and provided with an enlarged spur wheel, a horizontally-disposed shaft mounted upon the top of the frame and provided with a spur wheel meshing with and of less diameter than the first mentioned spur wheel, a horizontally-disposed shaft mounted upon the top of the frame and provided with a spur wheel meshing with and of less diameter than the second mentioned spur wheel, a crank handle carried by the last mentioned shaft, a beveled gear mounted upon the first mentioned shaft, a vertically-disposed shaft journaled in said frame and having its upper end formed with a beveled gear meshing with the other beveled gear, a transversely-shiftable plate arranged within the frame near the bottom thereof, transversely-extending supporting guides for said plate, an eccentric connected to said vertically-extending shaft, and a link connection between the eccentric and said plate.

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

ALBERT A. PAULY.

Witnesses:
MAX H. SROLOVITZ,
K. H. BUTLER.