

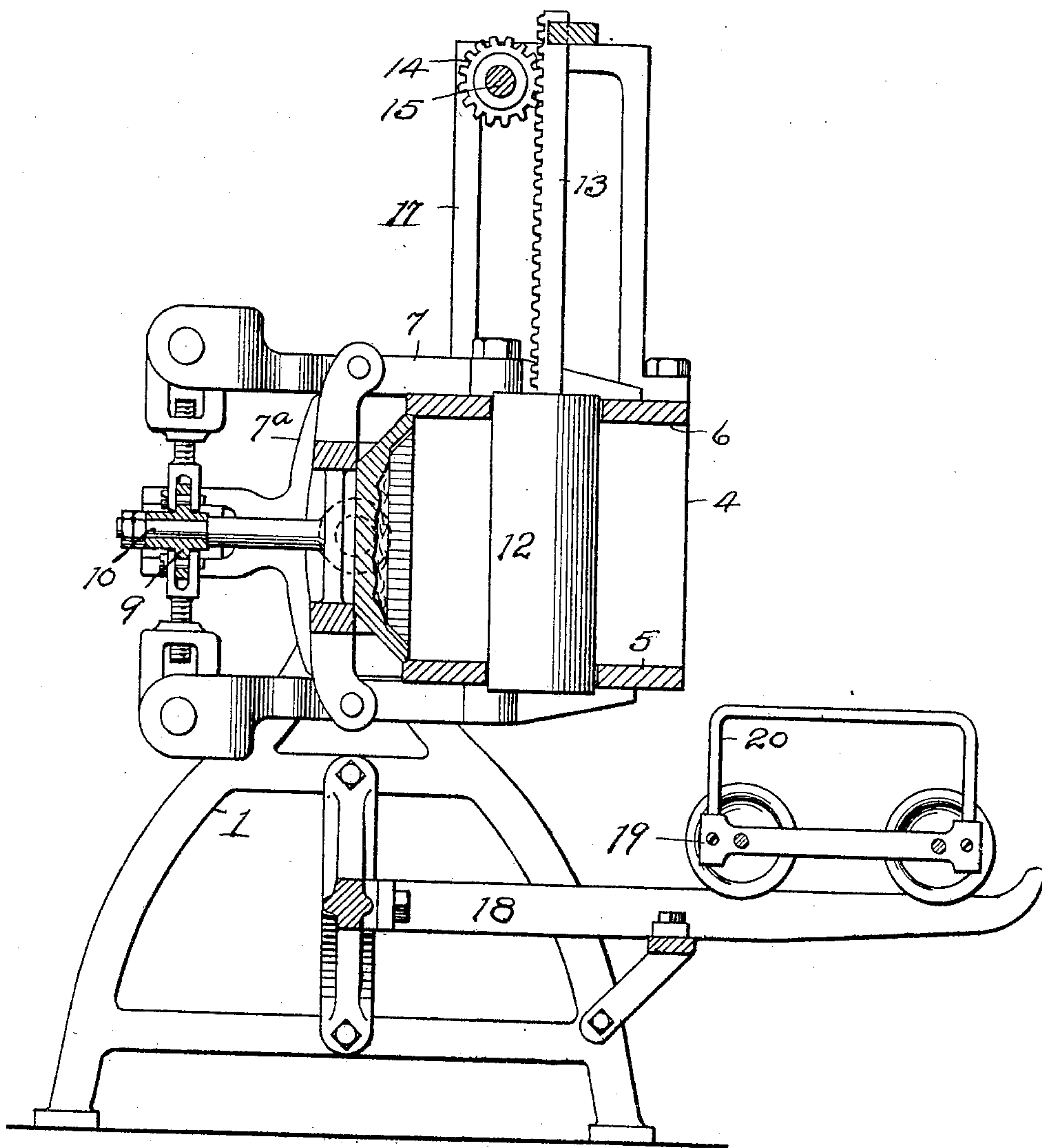
No. 803,865.

PATENTED NOV. 7, 1905.

D. W. WELLER.
CEMENT BLOCK MACHINE.
APPLICATION FILED JUNE 21, 1905.

3 SHEETS—SHEET 1.

Fig. 1.



Daniel W. Weller,

Witnesses:
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Katharine Kelly.

Inventor:
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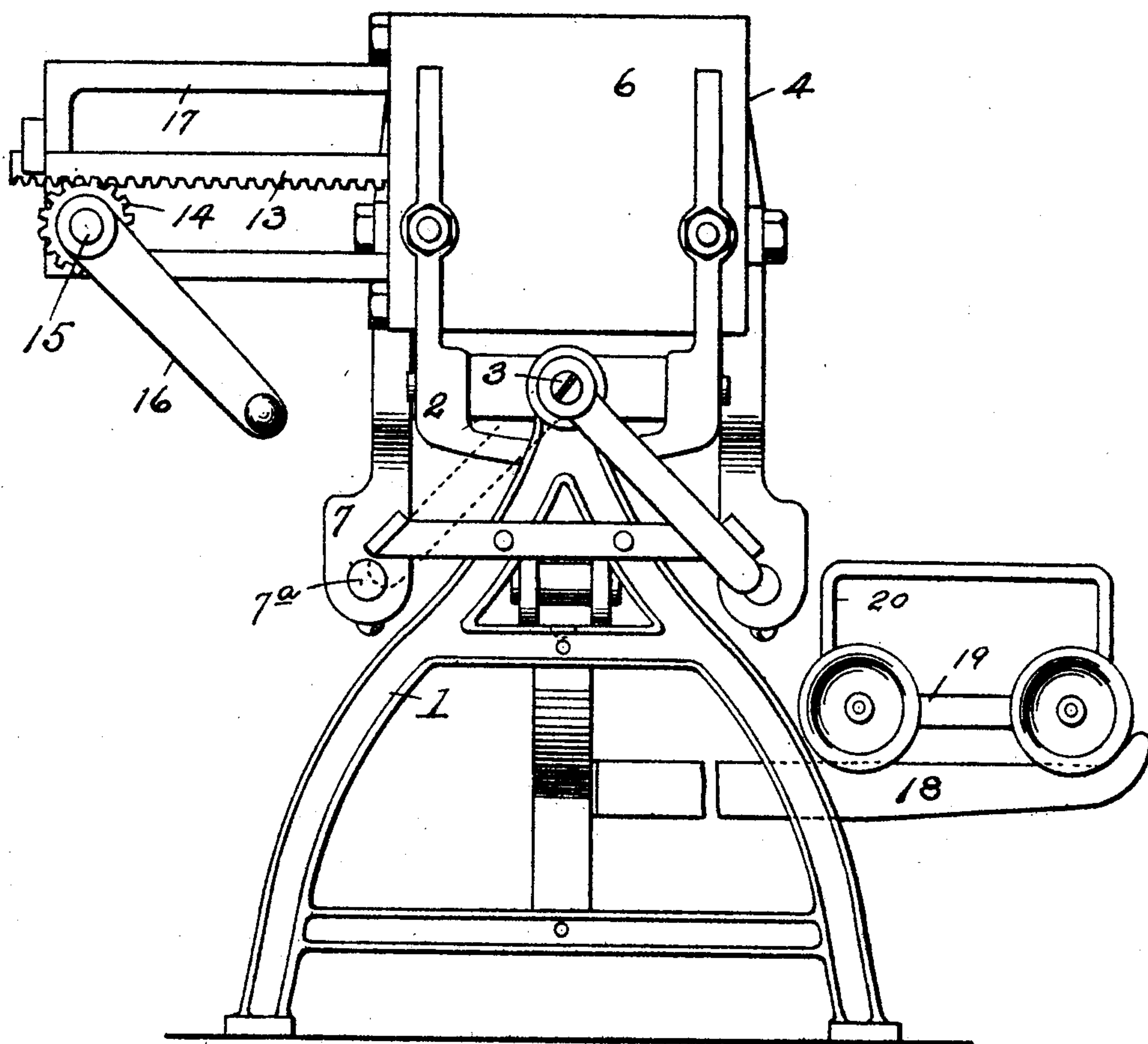
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3 SHEETS—SHEET 2.

Fig. 2.



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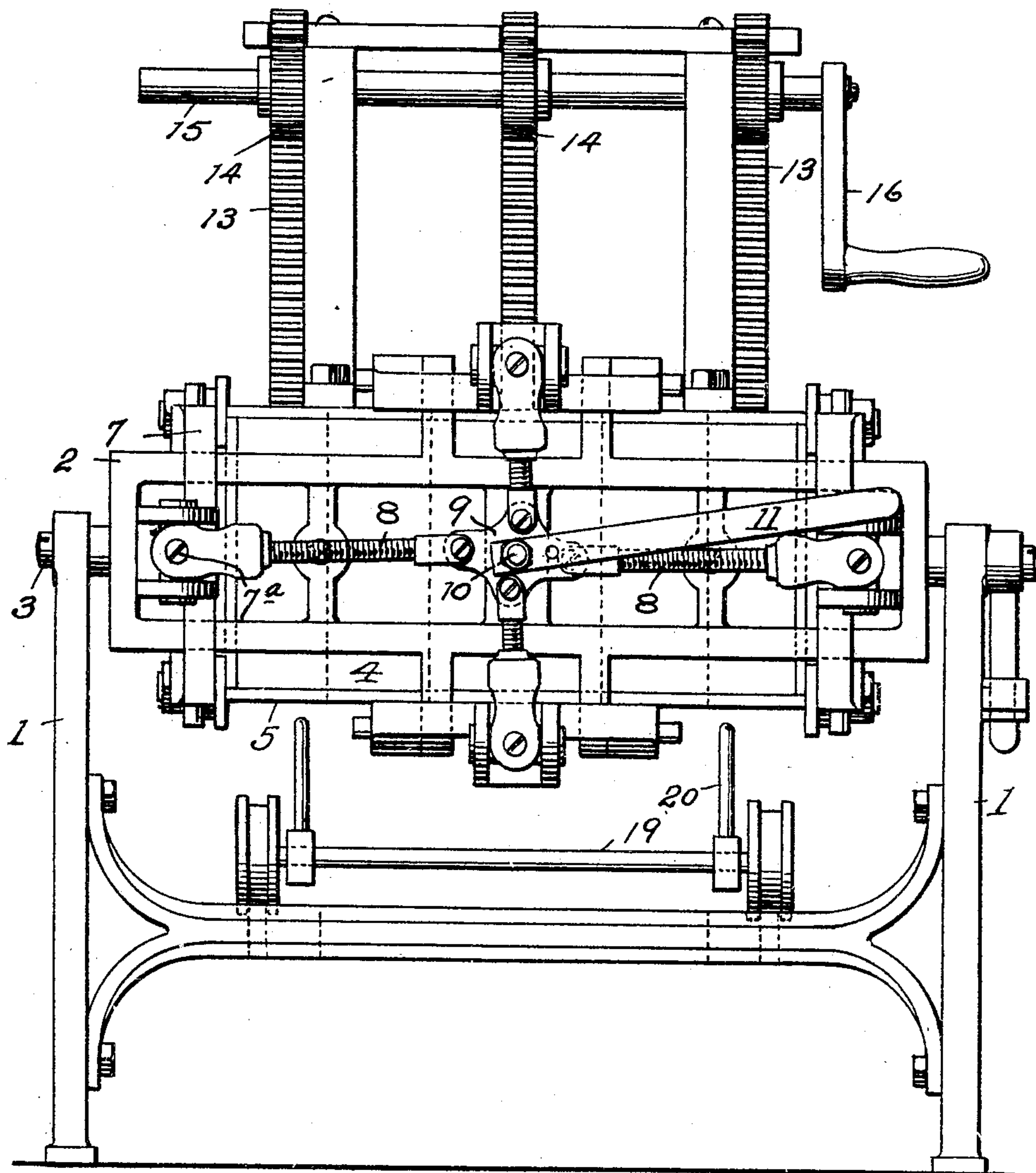
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3 SHEETS—SHEET 3.

Fig. 3.



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UNITED STATES PATENT OFFICE.

DANIEL W. WELLER, OF PHOENIXVILLE, PENNSYLVANIA.

CEMENT-BLOCK MACHINE.

No. 803,865.

Specification of Letters Patent.

Patented Nov. 7, 1905.

Application filed June 21, 1905. Serial No. 266,202.

To all whom it may concern:

Be it known that I, DANIEL W. WELLER, a citizen of the United States, residing at Phoenixville, in the State of Pennsylvania, have
5 invented new and useful Improvements in Cement-Block Machines, of which the following is a specification.

This invention relates to a machine for manufacturing cement blocks; and the object of the
10 invention is to produce a machine that will be easy to operate and one in which the blocks may be made with one or more hollow spaces.

A further object is the convenient appliance for handling the block after it is formed.

15 The invention is more fully described in the following specification and clearly shown in the accompanying drawings, in which—

Figure 1 is a vertical central sectional view of the machine just prior to the release and
20 delivery of a block. Fig. 2 is a side elevation in its initial position—i. e., ready to receive the material. Fig. 3 is a rear elevation of Fig. 1.

The numeral 1 indicates the base or frame
25 of the machine.

2 indicates the swinging body, which is pivotally mounted on the base at either end 3 and about evenly balanced.

The numeral 4 indicates the forming-box.
30 This box is composed of a removable front plate 5, which becomes the rest for the block when the machine is tilted forward, and three swinging plates 6, one at either end and one at the rear. This box has secured to its ends
35 frames 7, which in turn are pivotally mounted on a frame-piece 7^a, their rear ends being pivoted each on the end of an arm 8. The inner ends of these arms 8 are pivoted to a central four-arm crank 9, which crank is
40 mounted on a shaft 10 and is provided with an operating-lever 11.

The numeral 12 indicates the cores for forming the hollow spaces inside the blocks. These cores pass through the rear box-plate,
45 and each has formed on it a rearwardly-extending arm 13, with teeth formed on its under side. These toothed racks 13 are adapted to be engaged by gear-wheels 14, mounted on a transverse shaft 15, and to the end of which
50 I form a hand-crank 16. These racks and shafts are supported by means of braces or hangers 17 from the body of the machine.

Beneath the box I provide a track 18, on which is mounted a movable truck 19. Up-
55 rights 20 extend from this truck, and when the machine is tilted forward the plate 5 will

rest on these uprights with the block thereon, and the truck may then be drawn forward and the block lifted therefrom. The one end plate 6 of the box, as well as the bottom plate
60 5, may be made with an irregular or ornamental surface, so as to give the finished block the desired design or color.

The operation is as follows: The plastic cement is placed in the box 4 until it has reached
65 the lower line of the cores 12. The crank 16 is then turned, and the gears will force the cores into the box. The box is then filled to the top with the cement, which is packed as tightly as desired. The frame or body 2 is
70 then swung forward on its pivots 3, and the front plate rests on the truck-uprights 20. The crank 16 is now operated in the reverse direction, which will withdraw the cores. The hand-lever 11 is then pushed upward, open-
75 ing each of the end plates 6 through its connection with the rods 8 and frames 7 and 7^a, releasing the block and permitting it to be drawn forward on the truck 19. The box is
80 then closed after a new plate 5 has been placed in position and returned to its original position, when the operation may be repeated.

The cores are all operated at a single movement, and either one or more of them may be
85 used, as desired.

Having thus fully described my invention, what I claim is—

A machine for making hollow cement blocks comprising a frame, a pivotally-mounted and evenly-balanced body, a forming-box com-
90 posed of movable members, carried by said pivoted body, cores adapted to enter said box from the rear, a rack formed on each of said cores, a gear-wheel engaging said rack, a four-armed crank pivoted centrally at the
95 rear of the box, four adjustable screw-rods 8 connected at one end to said crank and at the other end one to each of the four movable box members, a hand operating-lever secured
100 to said crank and adapted to turn said crank and thereby open and close the said box members simultaneously, and a truck, mounted on a track formed on said frame, adapted to receive the contents of said box, substantially
105 as described.

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

DANIEL W. WELLER.

Witnesses:

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GEO. M. MILLER.