

No. 700,500.

Patented May 20, 1902.

W. W. JACQUES.  
STEAK TENDERER.

(Application filed Jan. 29, 1902.)

(No Model.)

Fig. 1.

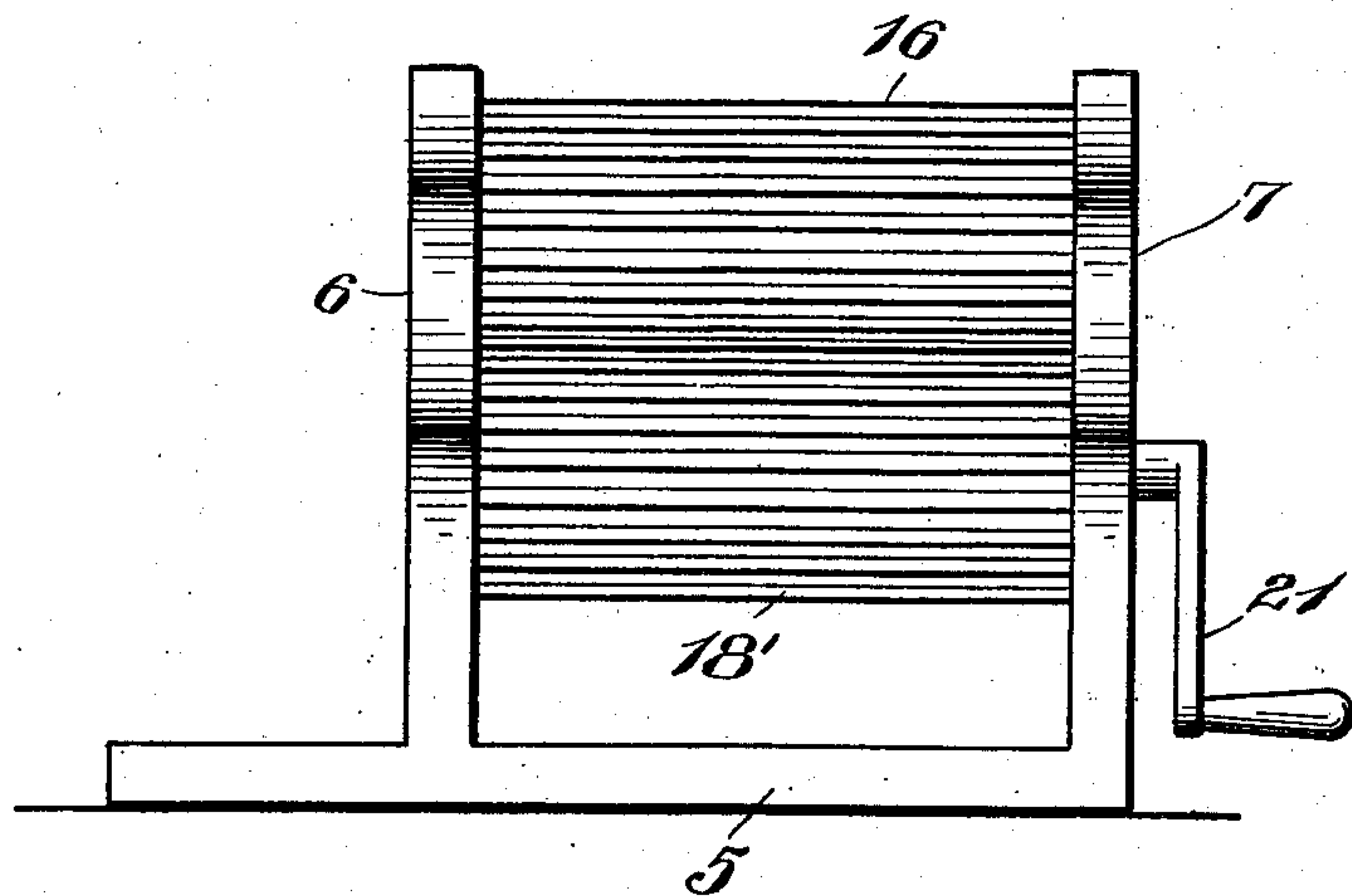


Fig. 2.

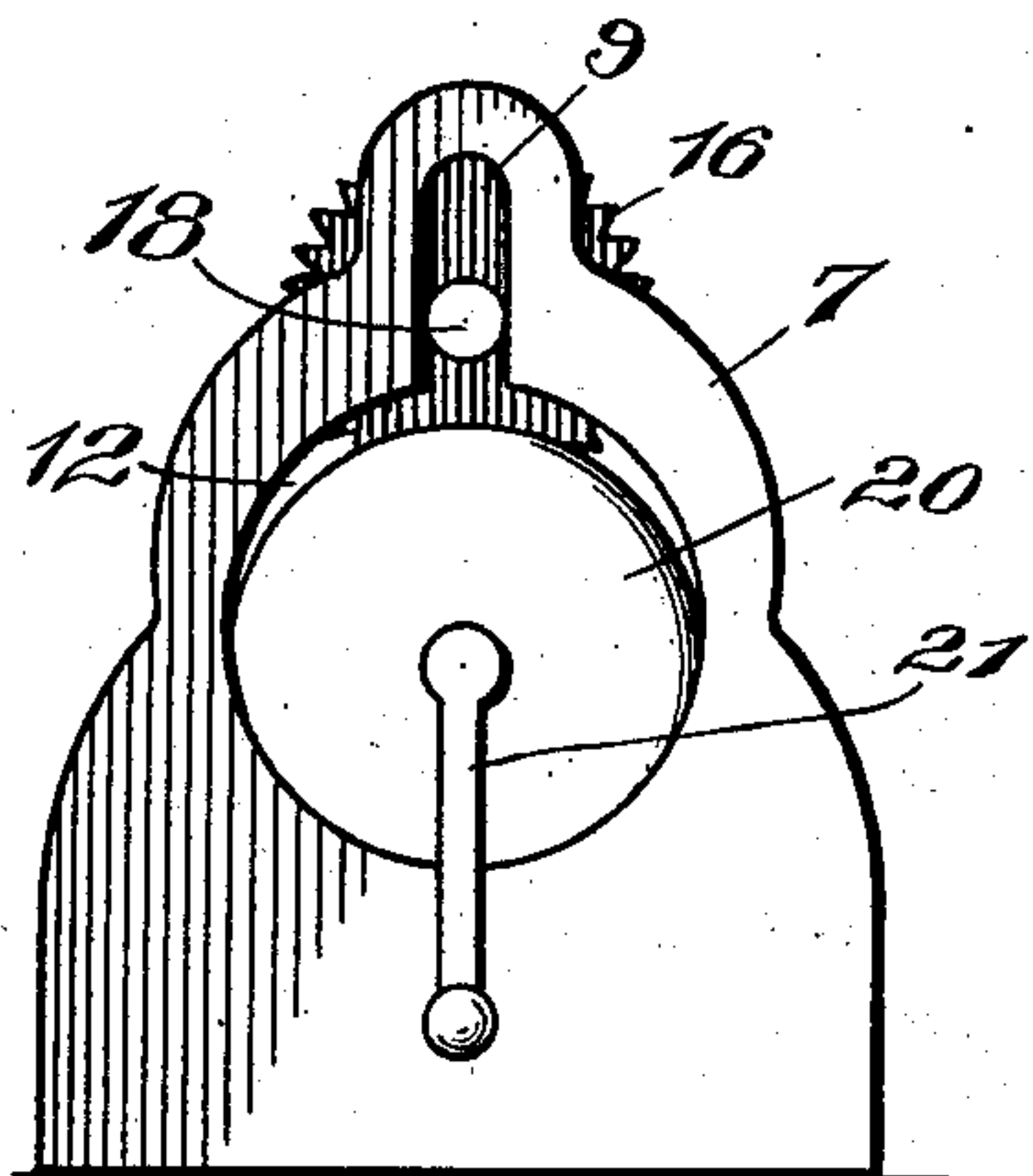
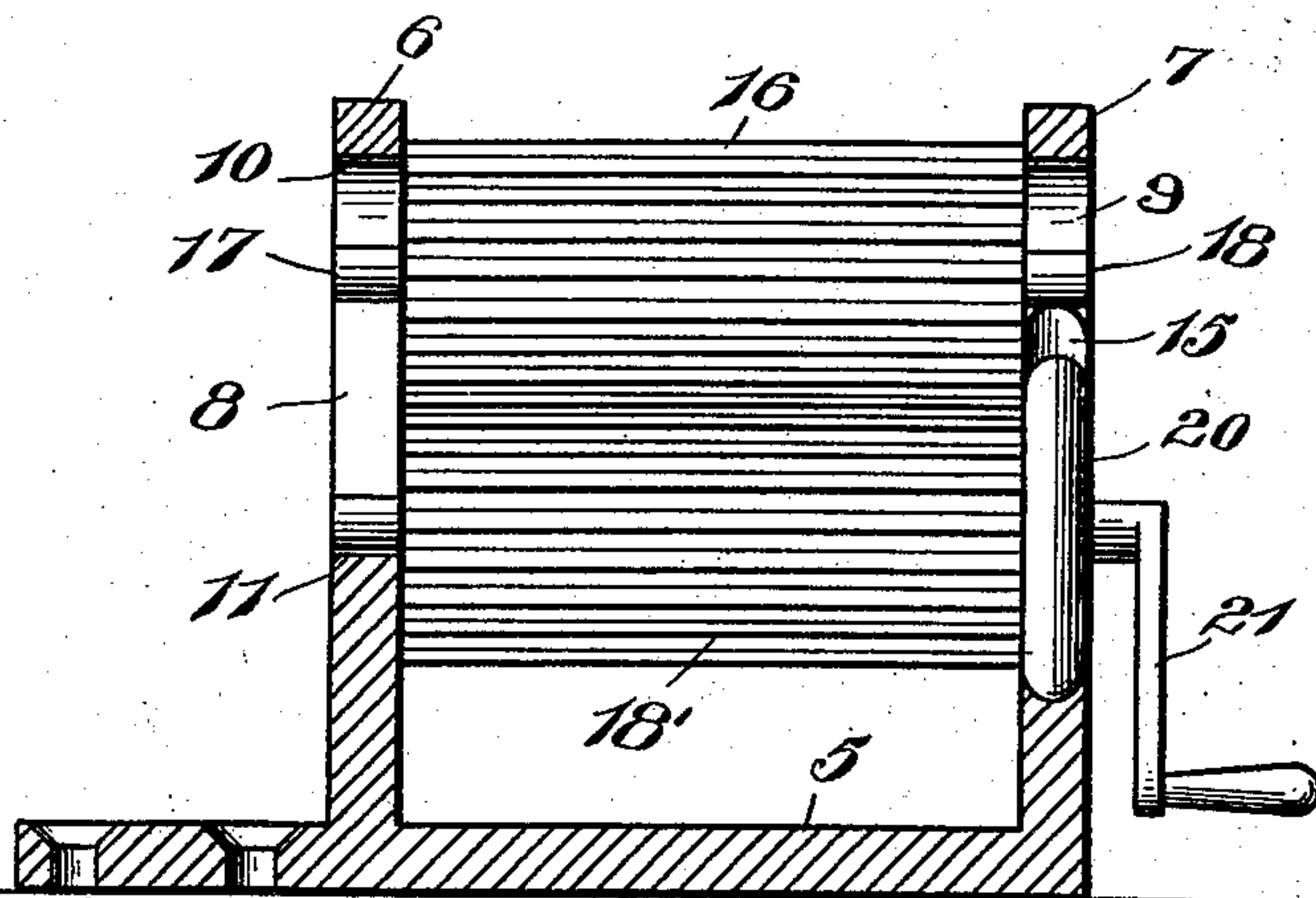


Fig. 3.



Witnesses

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# UNITED STATES PATENT OFFICE.

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## STEAK-TENDERER.

SPECIFICATION forming part of Letters Patent No. 700,500, dated May 20, 1902.

Application filed January 29, 1902. Serial No. 91,788. (No model.)

*To all whom it may concern:*

Be it known that I, WARREN W. JACQUES, a citizen of the United States, residing at Little Genesee, in the county of Allegany, State of New York, have invented certain new and useful Improvements in Steak-Tenderers; 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.

This invention relates to machines for treating steaks and other meats to make them more tender; and it has for its object to provide a device of this nature which will be cheap and efficient and which may be made of cast metal in only three pieces, a further object of the invention being to so form the parts thereof that they may be easily disassembled to permit of cleansing and may be as readily assembled.

In the drawings forming a portion of this specification, and in which like numerals of reference indicate similar parts in the several views, Figure 1 is a front elevation of the machine. Fig. 2 is an end elevation of the machine. Fig. 3 is a vertical longitudinal section through the machine.

Referring now to the drawings, the present machine consists of the base 5, upon which are cast the two uprights 6 and 7, which are parallel and in which are formed the vertical slots 8 and 9, the slot 8 having the rounded end portions 10 and 11, forming bearing-faces for the trunnions of the rollers, hereinafter described. The upper end of the slot 9 is likewise rounded to form a bearing-face for the second trunnion of the upper roller, the lower portion of the slot being enlarged, as shown at 12, and having a groove 15 in its face. The enlargement 12 is of sufficient size to permit of passage of the upper roller 16 therethrough, this upper roller having trunnions 17 and 18 at its ends which engage the bearing-surfaces at the upper ends of the slots, the face of the roller being corrugated longitudinally, as shown. The lower roller 18 is also passed through the enlargement 12, the trunnion 19 at one end thereof engaging in

the bearing at the lower end of the opposite slot, while the other end of the roller has the enlarged bearing portion 20, the bearing-face of which is arcuate in cross-section to engage the groove 15. On the same end of the roller as the portion 20 is the crank 21, through the medium of which the roller is rotated, the roller 18 being likewise corrugated longitudinally and being disposed to mesh with the upper roller.

In practice the meat to be treated is passed between the rollers, with the result that they are forced apart, and the convex face of the portion 20 of the lower roller is held snugly in the groove 15, and longitudinal displacement of the lower roller is prevented, the upper roller being held against longitudinal displacement owing to the relative dimensions of the slots and the ends of the roller, which latter bear against the inner faces of the uprights.

It will be seen that this device may be formed of cast metal and consists of only three pieces, which are so formed as to require little finishing.

In practice modifications of the specific construction shown may be made and any suitable materials and proportions may be used for the various parts without departing from the spirit of the invention.

What is claimed is—

1. A device of the class described consisting of a base and uprights formed integral, said uprights having vertical slots having end bearing-surfaces, a roller disposed between the uprights and having trunnions engaged with the upper bearing-faces, one slot having its lower portion enlarged to permit of passage of the roller therethrough and a second roller having a crank formed integral therewith, said roller having a trunnion at one end engaged with the lower end of one slot and having an enlarged bearing at its opposite end engaged with the enlargement of the other slot.

2. A device of the class described comprising spaced uprights having longitudinal slots having end bearings, the bearing at one end

of the slot being enlarged and grooved circumferentially, corrugated roller having trunnions engaged with the upper bearings of the slots, and a second roller having an  
5 enlarged bearing at one end convex in cross-section and engaged in the grooved bearing and having a trunnion at its opposite end engaged with the other slot, the second roller

being corrugated and having a crank for rotating it.

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

WARREN W. JACQUES.

Witnesses:

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