No. 795,263. PATENTED JULY 25, 1905.

S. C. ANKER-HOLTH.

GEARING FOR CENTRIFUGAL MACHINES.

APPLICATION FILED JAN. 16, 1905.

2 SHEETS—SHEET 1.

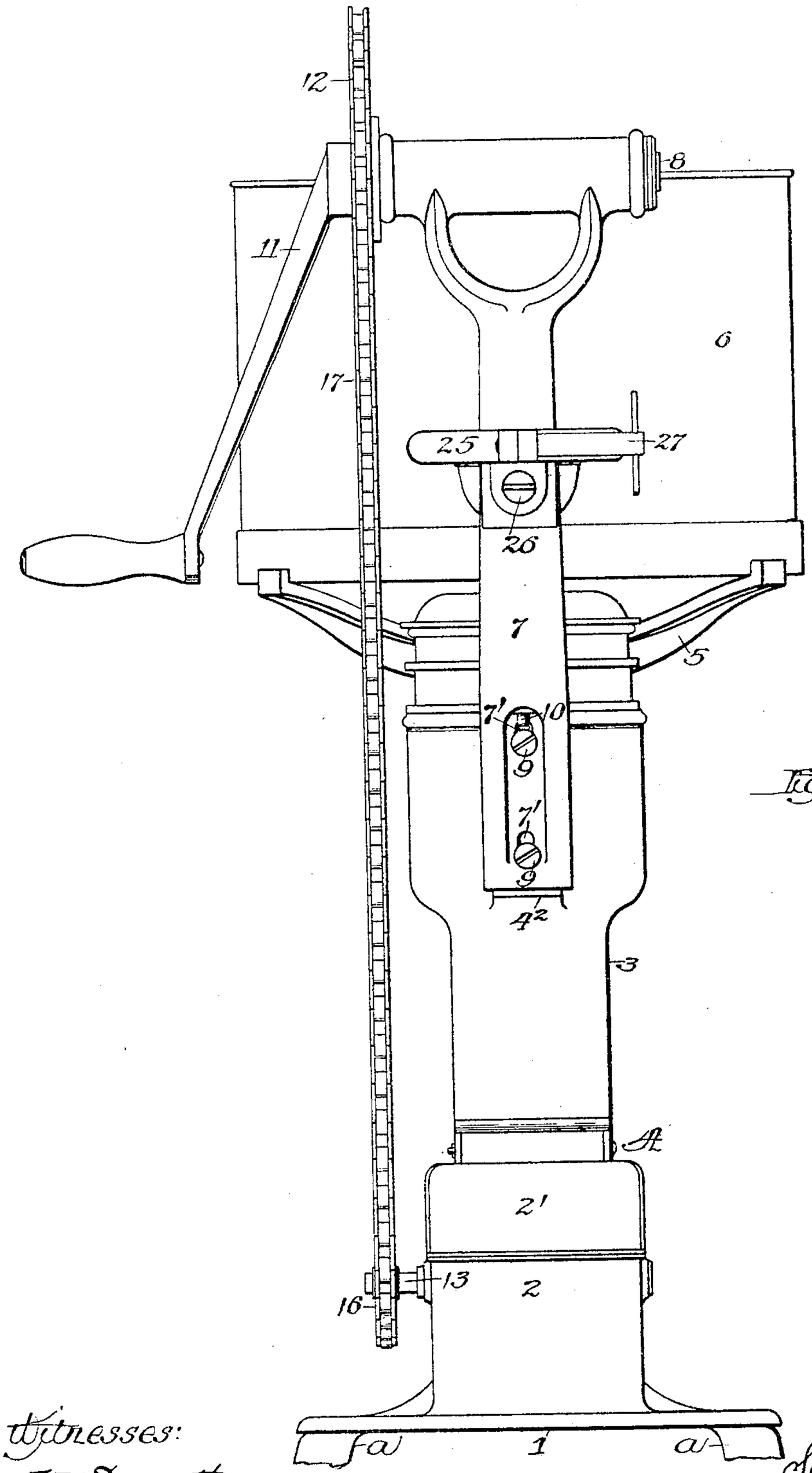

Fig. 1.

Witnesses:
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Inventor
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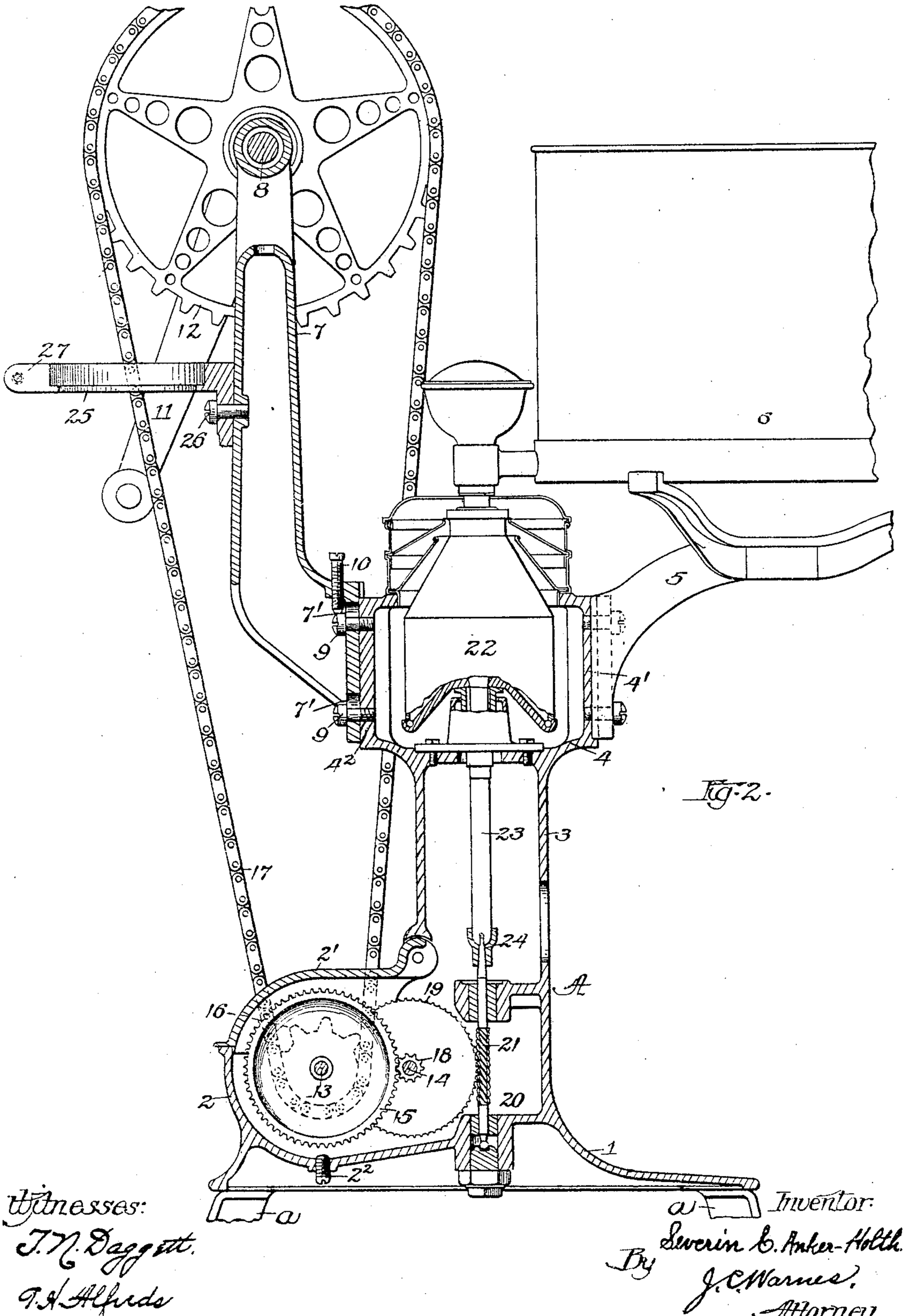

Fig. 2.

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UNITED STATES PATENT OFFICE.

SEVERIN C. ANKER-HOLTH, OF CHICAGO, ILLINOIS, ASSIGNOR TO INTERNATIONAL HARVESTER COMPANY, A CORPORATION OF NEW JERSEY.

GEARING FOR CENTRIFUGAL MACHINES.

No. 795,263. Specification of Letters Patent. Patented July 25, 1905.

Application filed January 16, 1905. Serial No. 241,185.

To all whom it may concern:

Be it known that I, SEVERIN C. ANKER-HOLTH, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented a new and useful Improvement in Gearing for Centrifugal Machines, of which the following is a complete specification.

This invention relates to the frame construction and the driving connection for manually-operated cream-separators, the object being to provide a frame which shall be simple and compact, adapted to render easily accessible the inclosed driving elements, and to employ a chain-drive by means of which the weight of the machine can be reduced and its manufacture simplified.

In the accompanying drawings, Figure 1 represents a side elevation of the complete machine, and Fig. 2 is a central transverse vertical section of the same.

In the drawings, A designates the frame of the machine, consisting of the frame-base 1, of the gear-casing 2 formed thereon, of the upwardly-projecting hollow standard 3, and the bowl-receiving chamber 4, located on the upper end of said standard, all comprised, preferably, of a single casting. The frame A is supported upon the legs *a* in order to raise the machine to a height within convenient reach of the operator, the upper portion only of these legs being shown. To a flattened portion 4′ of the wall of the bowl-receiving chamber 4 is secured the bracket 5, which supports the supply-tank 6. To a similarly-flattened portion 4^2 of the wall of this same chamber and at a point opposite to the bracket 5 is secured the upwardly-extending crank-shaft bracket 7, in the upper end of which journals the crank-shaft 8. Vertical slots 7′ are provided in the lower end of the bracket 7, which receive the cap-screws 9, thus affording an adjustable connection between the said bracket and its support. The vertically-disposed set-screw 10 is arranged near the foot of the bracket 7 and in a position to bear against the head of the upper cap-screw 9, by which means vertical adjustment of the crank-shaft bracket is effected.

On the crank-shaft 8 is rigidly secured the crank 11 and the large sprocket-wheel 12. In the casing 2 on the base 1 of the frame are journaled the shafts 13 and 14, the former having the gear 15 and the small sprocket-wheel 16, rigidly secured thereto, the said sprocket-wheel being located on the end of the shaft outside the casing, while the gear 15 is located within. The sprocket-chain 17 forms a driving connection between the large sprocket-wheel 12 on the crank-shaft and the small sprocket-wheel last mentioned. On the shaft 14 is secured the pinion 18 and the large worm-gear 19, the former meshing with and being driven by the gear 15, while the latter meshes with and drives the vertical shaft 20 through the worm 21 mounted thereon. The shaft 20 journals in suitable bearings in the frame A and communicates motion to the bowl 22 through the bowl-spindle 23. A ball-and-socket joint 24 forms a universal articulation between the vertical shaft 20 and the bowl-spindle 23.

The casing 2 is provided with the lid 2′ on top and with an opening closed by the screw 2^2 at the bottom to facilitate cleaning. An auxiliary bracket 25, annular in shape, split at its outer side and forming, in effect, a split collar, is secured to the crank-shaft bracket 7 by the cap-screw 26. The office of this auxiliary bracket is to receive and securely clamp the bowl 22 when it is desired to loosen and take apart the several members thereof, the tightening of the bowl-securing bracket being accomplished by means of the clamp-screw 27.

What I claim as my invention, and desire to secure by Letters Patent, is—

In a cream-separator, in combination, a main frame provided with a casing at the base thereof and an upwardly-extending standard terminating at its upper end in a bowl-receiving chamber, a train of driving-gears journaled in said casing, a small sprocket-wheel in connection with said train of gears, a vertically-adjustable bracket secured to the bowl-receiving chamber of said frame, a crank-shaft journaled in said bracket, a driving sprocket-wheel secured to said crank-shaft, and a sprocket-chain connecting said driving-sprocket with the small sprocket which journals in said casing.

SEVERIN C. ANKER-HOLTH.

Witnesses:

GEO W. HENDERSON,

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