

No. 878,222.

PATENTED FEB. 4, 1908.

J. M. MATTIS.
COW MILKER.

APPLICATION FILED FEB. 25, 1907.

Fig. 1.

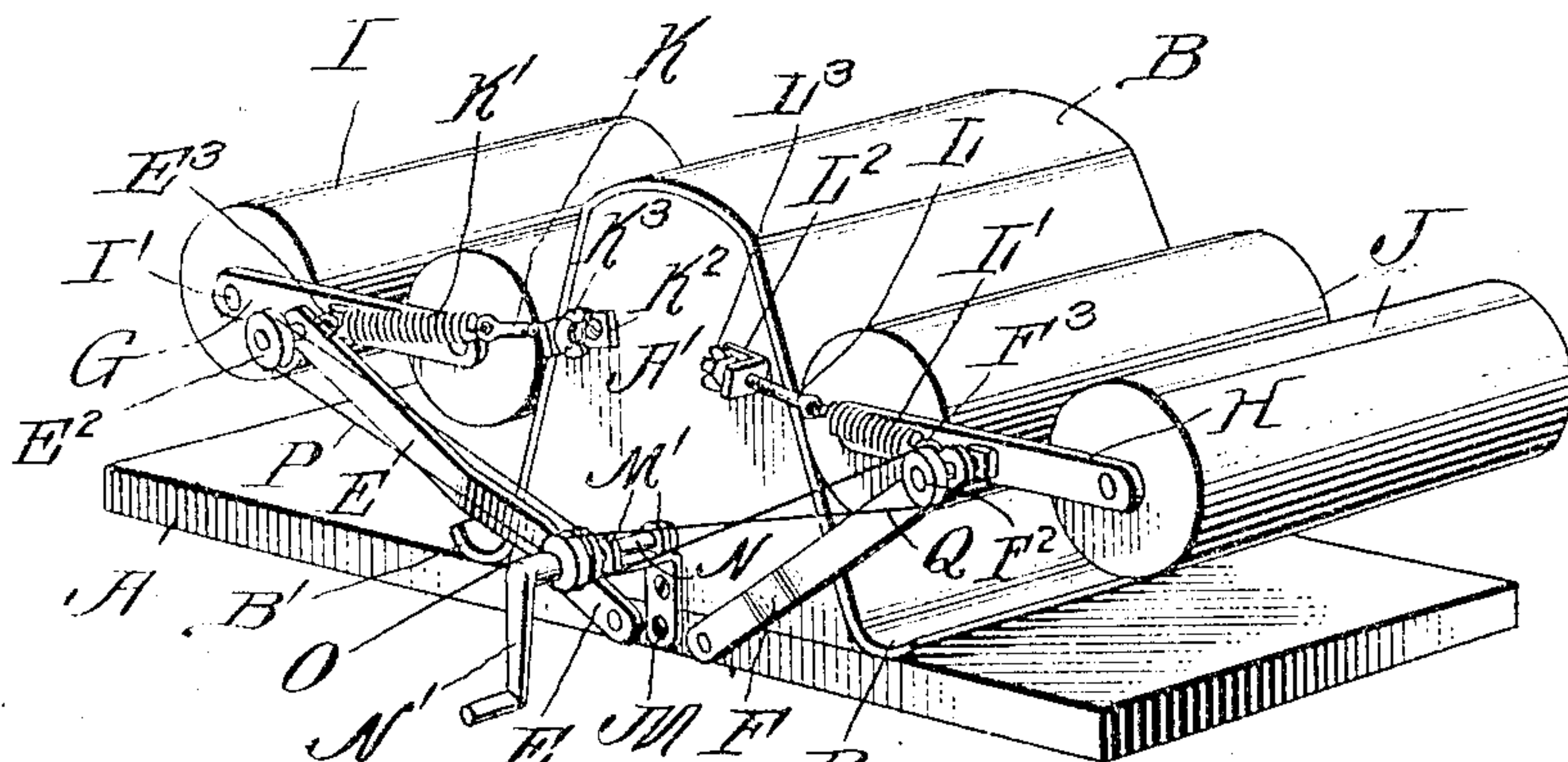


Fig. 2.

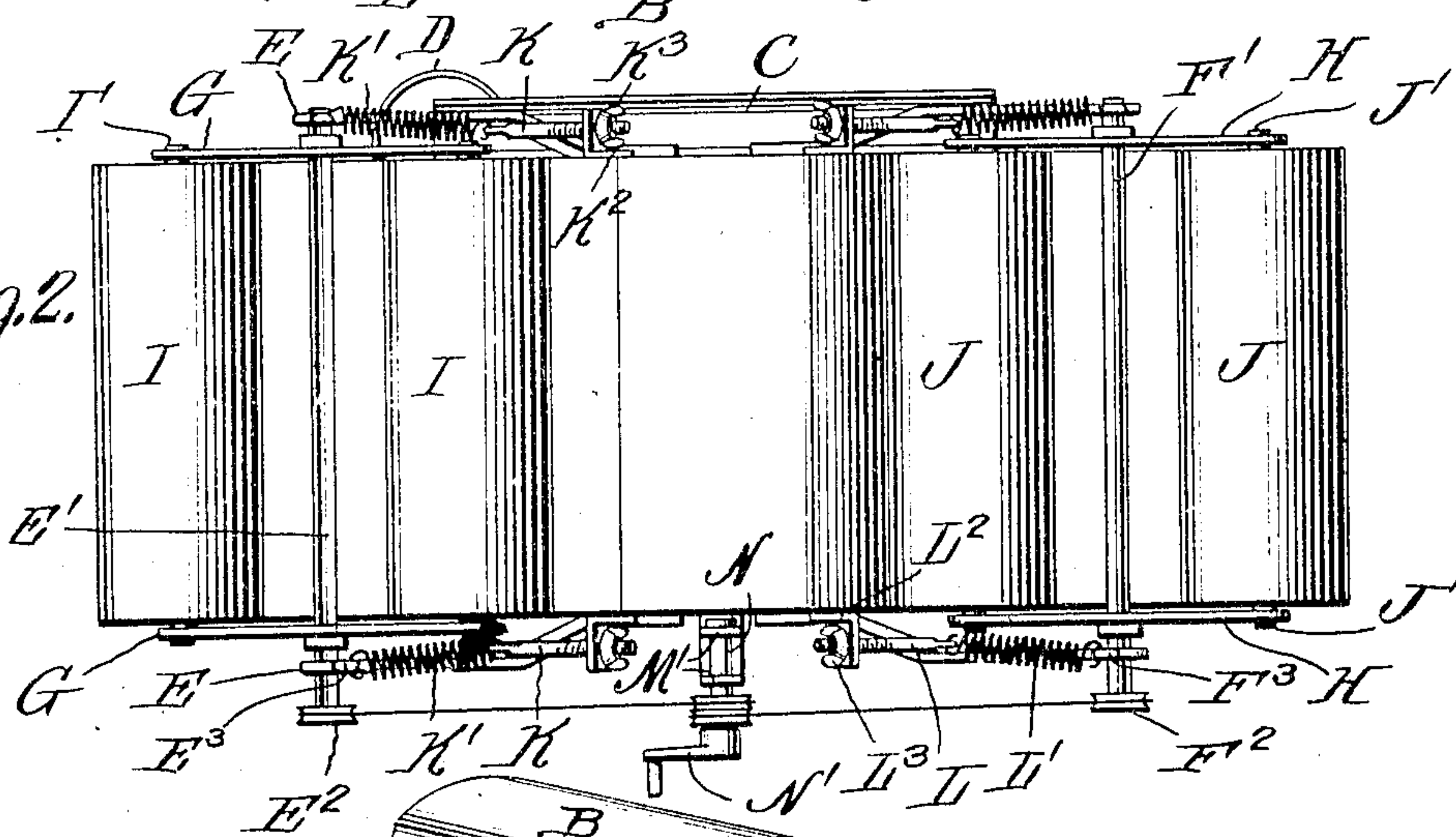
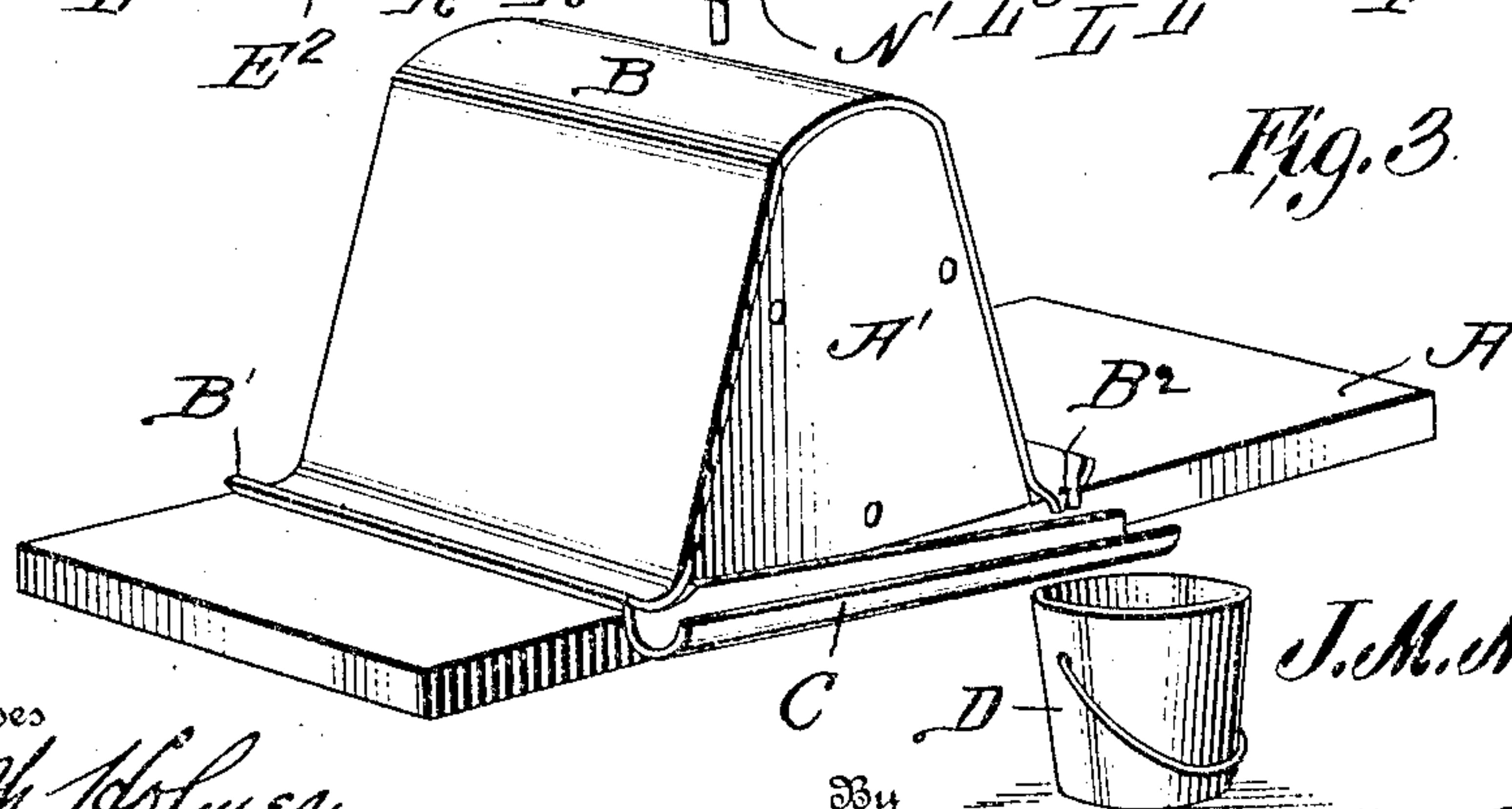


Fig. 3.



Witnesses

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UNITED STATES PATENT OFFICE.

JOHN M. MATTIS, OF TRIPP, SOUTH DAKOTA.

COW-MILKER.

No. 878,222.

Specification of Letters Patent.

Patented Feb. 4, 1908.

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To all whom it may concern:

Be it known that I, JOHN M. MATTIS, a citizen of the United States, residing at Tripp, in the county of Hutchinson and State of South Dakota, have invented a new and useful Improvement in a Cow-Milker, of which the following is a specification.

This invention relates to certain new and useful improvements in mechanical devices for milking cows, the object being to provide a device which can be readily held on the knees or placed on a stool and operated so as to give the action of the hand in forcing the milk from the cow's teats.

Another object of my invention is to provide a device which is very simple and cheap in construction and one which can be easily kept clean.

Another object of my invention is to provide a device which will manipulate the teats without injuring the same, thereby overcoming the difficulties now existing with devices of this character now in use.

With these and other objects in view, the invention consists in the novel features of construction, combination and arrangement of parts hereinafter fully described and pointed out in the claims.

In the drawing forming a part of this specification:—Figure 1 is a perspective view of my improved milking device. Fig. 2 is a top plan view of the same. Fig. 3 is a perspective view of the base showing the operating mechanism detached.

In the drawing A indicates a base formed preferably of wood provided with a central upwardly projecting block A' having inclined sides. A sheet of any suitable metal B is secured over the block, the ends of which are bent upwardly forming troughs B' adapted to catch the milk. A spout B² is formed on one end of one of the troughs B', under which is arranged an inclined trough C which extends up under the other trough B' on the opposite side of the block adapted to convey the milk to a pail D, arranged under the lower end of the trough C.

Mounted on pins secured in the edges of the base to each side of the center, are oppositely disposed upwardly extending outwardly bowed arms E, and F provided with apertured ends, in which are mounted shafts E', F' having grooved pulleys E², F² secured on the outwardly extending ends for the purpose hereinafter described.

Secured on the shafts E', and F' by nuts

adjacent the arms E and F are bars G and H provided with apertured ends in which are mounted the stud-pins I', J' of spaced rollers I and J, which are preferably formed of rubber. The arms E and F are provided with eyes E³, F³ adjacent their upper ends, in which are secured the ends of coil-springs K', L' carried by eye-bolts K, and L, mounted in brackets K², L² secured to the block A, on which are mounted thumb-nuts K³, L³ so that the tension of the spring can be adjusted when desired. These springs draw the arms towards the inclined block so that the teats will be squeezed between the same when the bars carrying the rollers are rotated, so as to bring the roller into engagement with the teats as will be hereinafter fully described.

A bracket M is secured centrally to the edge of the base and end of the block, provided with upwardly extending apertured lugs M', in which is mounted a shaft N carrying a crank-arm N' provided with a double grooved pulley O carrying belts P and Q which pass over the pulleys E², F², the belt Q being twisted so as to make the bars H rotate towards the block.

The operation is as follows: The base is placed on a suitable support under the cow, so that the teats will hang over the block and rest against the inside of the plate. The crank is then turned and as the shafts are rotated, the arms will be revolved so as to bring first one and then the other of the rollers into engagement with the teats on each side of the block, so that the milk will be squeezed out as the rollers pass down over the teats which are held into contact with the same, by the springs.

Having thus fully described my invention, what I claim as new and desire to secure by Letters Patent is:—

1. In a device of the kind described, the combination with a base provided with a block having inclined sides, of a sheet of metal secured over said blocks provided with troughs at its ends, spring actuated arms mounted on said base and rollers carried by said arm.

2. The combination with a base provided with an upwardly extending block having converging sides, of spring actuated arms mounted on said base carrying a shaft, arms mounted on said shaft carrying rollers adapted to engage said sides of said blocks and means for operating said shaft.

3. The combination with a base provided

with an upwardly extending block, of a sheet of metal secured over said block provided with troughs at its ends, spring actuated arms mounted on said base carrying shafts, bars secured on said shafts, rollers mounted in said bars and means for operating said shaft.

4. In a device of the kind described, the combination with a base provided with a block having converging sides, of arms carried by said base, a shaft mounted in said arms, bars mounted on said shaft carrying rollers adapted to engage the sides of said block and means for operating said shaft.

5. The combination with a base provided with an upwardly extending block having inclined sides, of a sheet of metal secured over said block provided with troughs at its ends, a trough arranged under the lower ends of

said trough, arms carried by said base and rollers carried by said arms.

6. The combination with a base provided with an upwardly extending block, of troughs arranged on said base to each side of the block, spring actuated arms mounted on said base, shafts mounted in said arms provided with pulleys, bars secured on said shafts, rollers mounted in said bars, a bracket secured to one end of said block, a shaft mounted in said bracket, a crank-shaft secured over said shaft provided with a grooved pulley and belts carried by said pulleys passing over the pulleys, carried by the shafts.

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Witnesses:

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