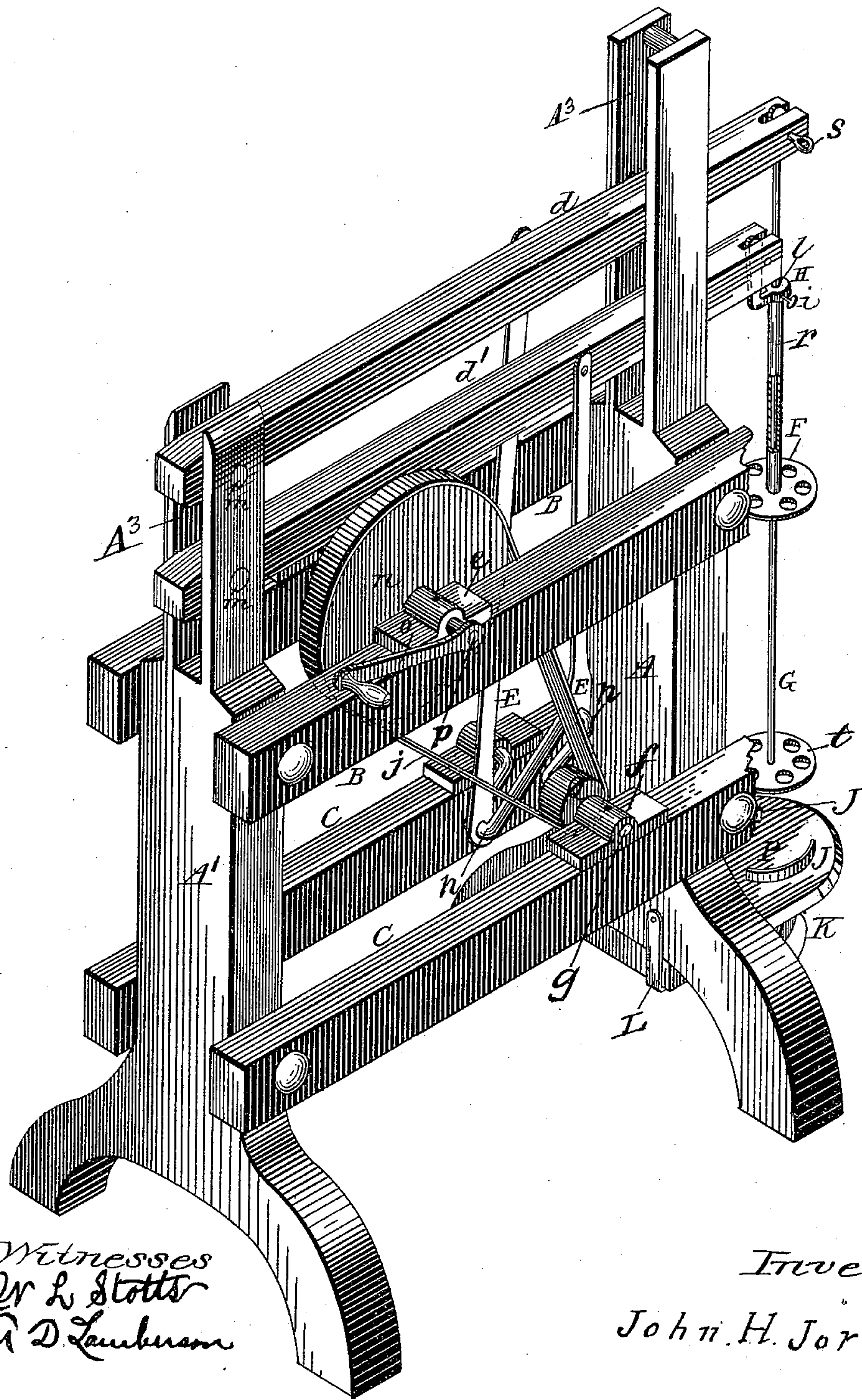


(No Model.)

J. H. JORDAN.
MOTOR FOR CHURNS.

No. 438,888.

Patented Oct. 21, 1890.



Witnesses
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UNITED STATES PATENT OFFICE.

JOHN H. JORDAN, OF DEE, ARKANSAS.

MOTOR FOR CHURNS.

SPECIFICATION forming part of Letters Patent No. 438,888, dated October 21, 1890.

Application filed March 10, 1890. Serial No. 343,443. (No model.)

To all whom it may concern:

Be it known that I, JOHN H. JORDAN, a citizen of the United States, residing at Dee, in the county of Craighead and State of Arkansas, have invented a new and useful Motor for Churns, of which the following is a specification.

My invention relates to churn-motors of that class known as "double dashers," and to that particular construction thereof in which one dasher is tubular and through which the opposite dasher is designed to reciprocate.

The objects of the invention are to reduce to a minimum the parts necessary to the construction of the invention, and thus greatly simplify and cheapen the completed apparatus.

With the above objects in view the invention consists in certain detail features of construction hereinafter specified, and particularly pointed out in the claim.

Referring to the drawing, which is a perspective of a churn-motor constructed in accordance with my invention, A and A' designate, respectively, the front and rear vertical standards of the motor-frame, the lower ends of which are spread and shaped to form feet, and which at points near their upper ends are somewhat reduced and provided with guide-slots A³. Below their reductions the said standards are connected by a pair of opposite side bars B and near their lower ends by a lower pair of side bars C.

Secured by brackets or straps L to the lower end of the front standard is a platform J, in the under side of which is swiveled a supporting-caster K, and upon its upper side is provided with a pair of opposite-curved keepers P. The platform is designed to support a churn-body, which is retained in position by the keepers. The caster strengthens the platform and facilitates the moving about of the motor. Within the rear vertical slot A³ is pivotally mounted a pair of vertically-opposite levers *d d'*, both of which project to the front, pass through, and terminate beyond the front guide-slot A³ of the front standard. Journaled in opposite bearings *e*, located upon the side bars B, is a transverse power-shaft *p*, which is operated at one end by a

crank *o*, and has mounted thereon between its bearings a large drive-pulley *n*. Below and in front of the bearings *e* there is mounted upon the lower side bars C a pair of bearings *f*, in which is journaled a shaft *g*, bent to form oppositely-disposed cranks *h*, each of which is connected with one of the levers *d* and *d'* by a pitman or connecting-rod E. At one side of the cranks *h* there is located upon the shaft a small pulley Q, connected to and driven by the large drive-pulley *n* by means of an endless belt *j*. The front end of the lower lever *d'* is slotted, and pivoted therein is a loosely-depending L-shaped bracket H, which at its lower end is provided with an opening *l*, into which projects a thumb-screw *i*. A tubular dasher-staff *r* terminates at its upper end in the opening *l* and is held in position by the screw, whereby it is suspended and adapted to swing. The lower end of the tubular staff is provided with a dasher or disk F. The front end of the lever *d* is also slotted, and removably pivoted therein, as at *s*, is the upper end of a dasher-staff G, said staff passing through the tubular staff, terminating below the same, and provided with a dasher or disk *t*. A churn-body being placed upon the platform, the pin *s* is removed and the staff G slid upwardly and the crank turned until the dasher F can be inserted into the churn-body, after which the staff G is again connected with the lever *d* and the operation of churning may be commenced. By the oppositely-disposed cranks *h* the levers *d d'* will be simultaneously vibrated in opposite directions at a rapid speed, and thus the cream thoroughly agitated and quickly converted to butter.

Having described my invention, what I claim is—

In a churn-motor, the combination, with the front and rear standards, the upper ends of which are slotted, as at A³, and the upper and lower pairs of longitudinal connecting-bars B and C, of the horizontal arms or levers *d d'*, pivoted at their rear ends in the slot of the rear standard, the drive-shaft *b*, journaled in the upper side bars, the crank *o* and pulley *n*, mounted thereon, the shaft *g*, journaled in the lower pair of bars and provided with the

oppositely-disposed cranks h , the pitmen-rods
E, connecting each crank to a lever or arm d
or d' , the pulley Q, mounted on the shaft, the
belt connecting the same with the drive-pul-
5 ley n , the platform located in front of the front
standard, the perforated L-shaped bracket H,
pivotally mounted in the front end of the arm
 d' , and means for connecting said motor to
the device to be operated, substantially as
specified.

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Witnesses:

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