

No. 894,649.

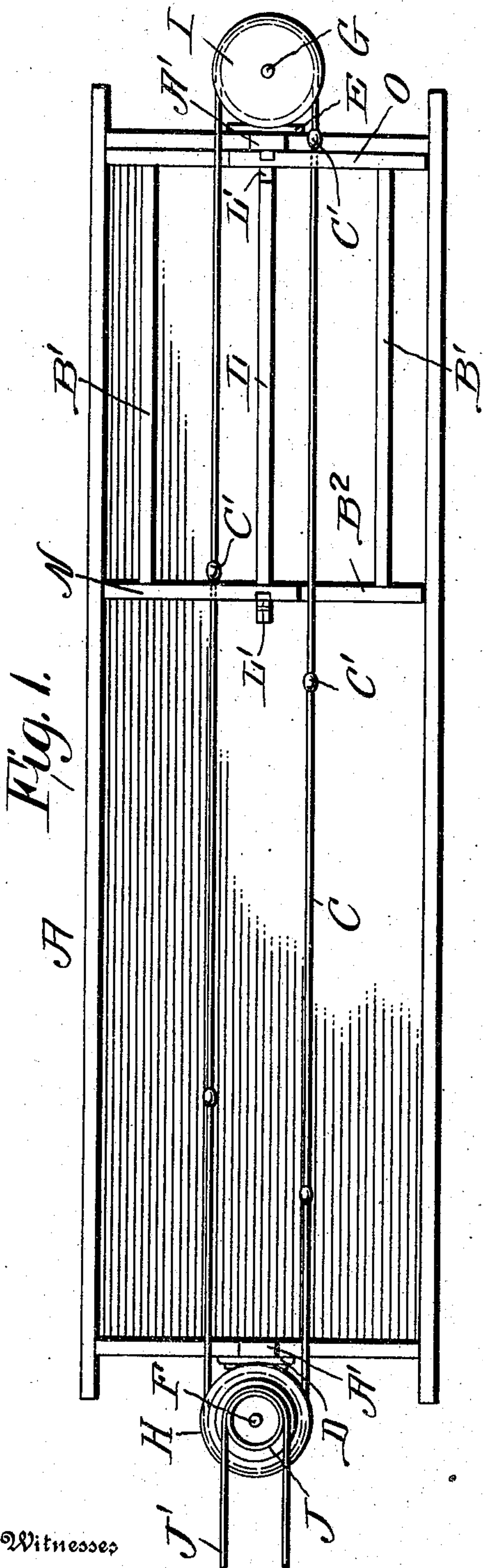
J. W. HOGUE.

PATENTED JULY 28, 1908.

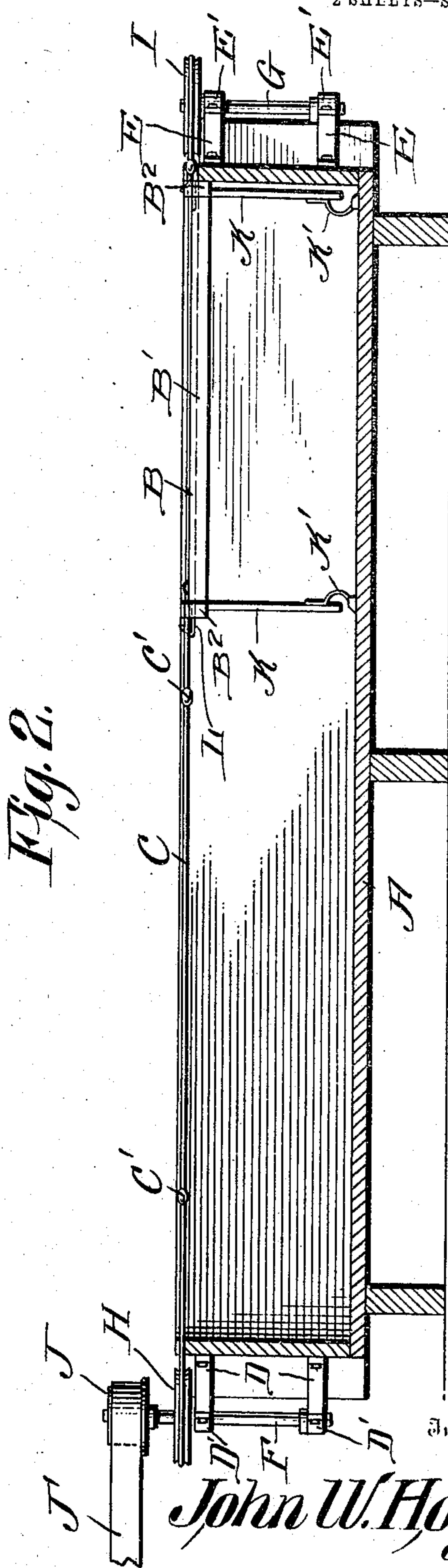
AUTOMATIC CURD AGITATOR.

APPLICATION FILED JULY 24, 1907.

2 SHEETS—SHEET 1.



Witnesses
Oliver H. Holmes
Rea B. Wright.



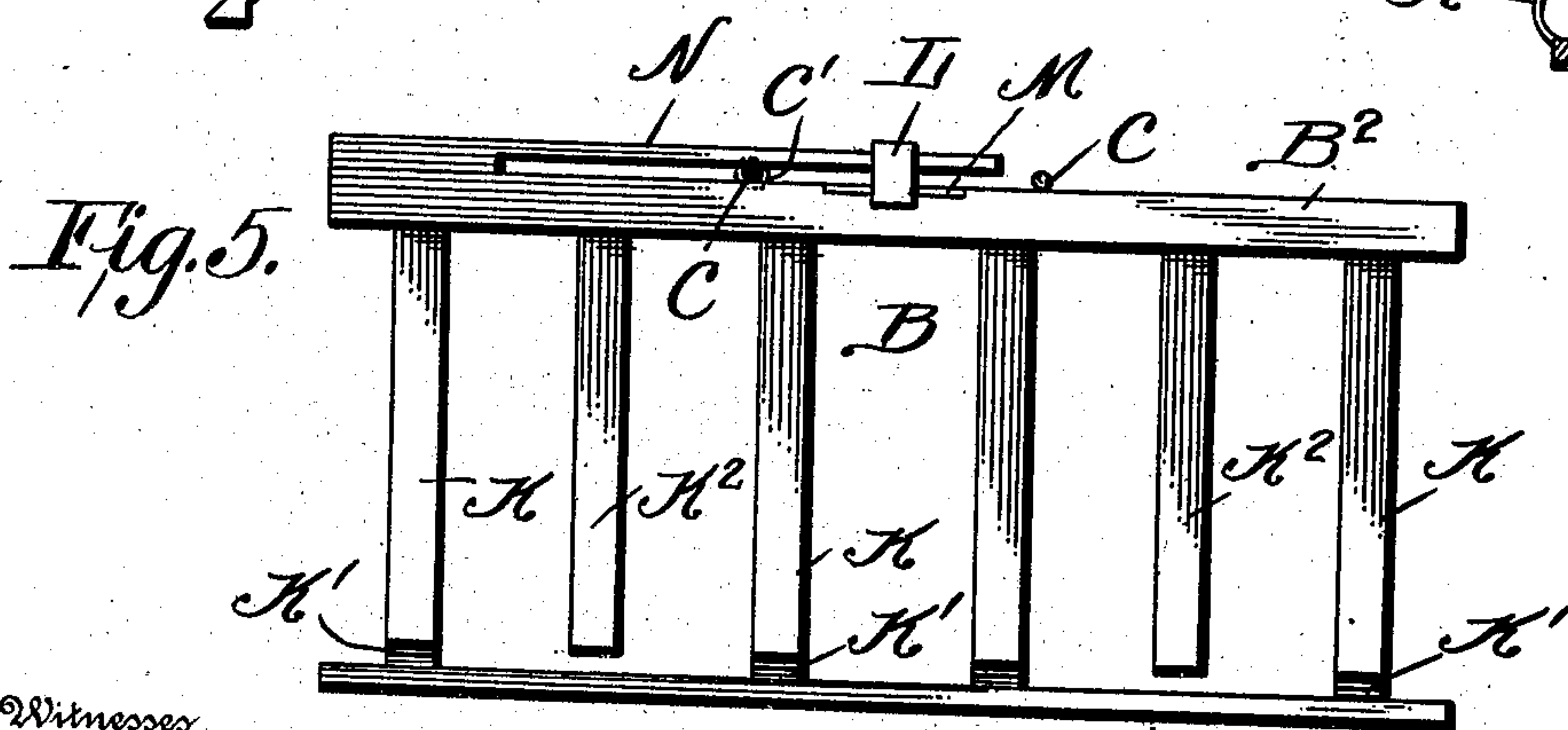
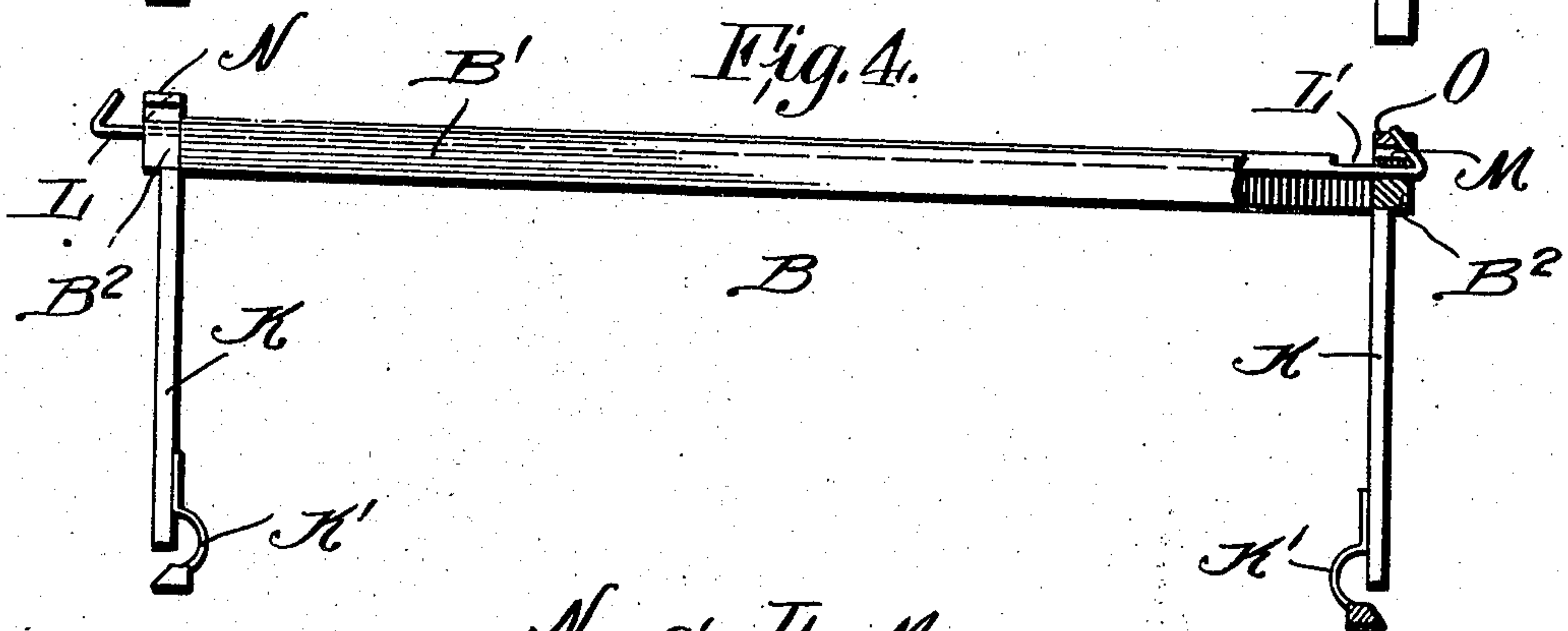
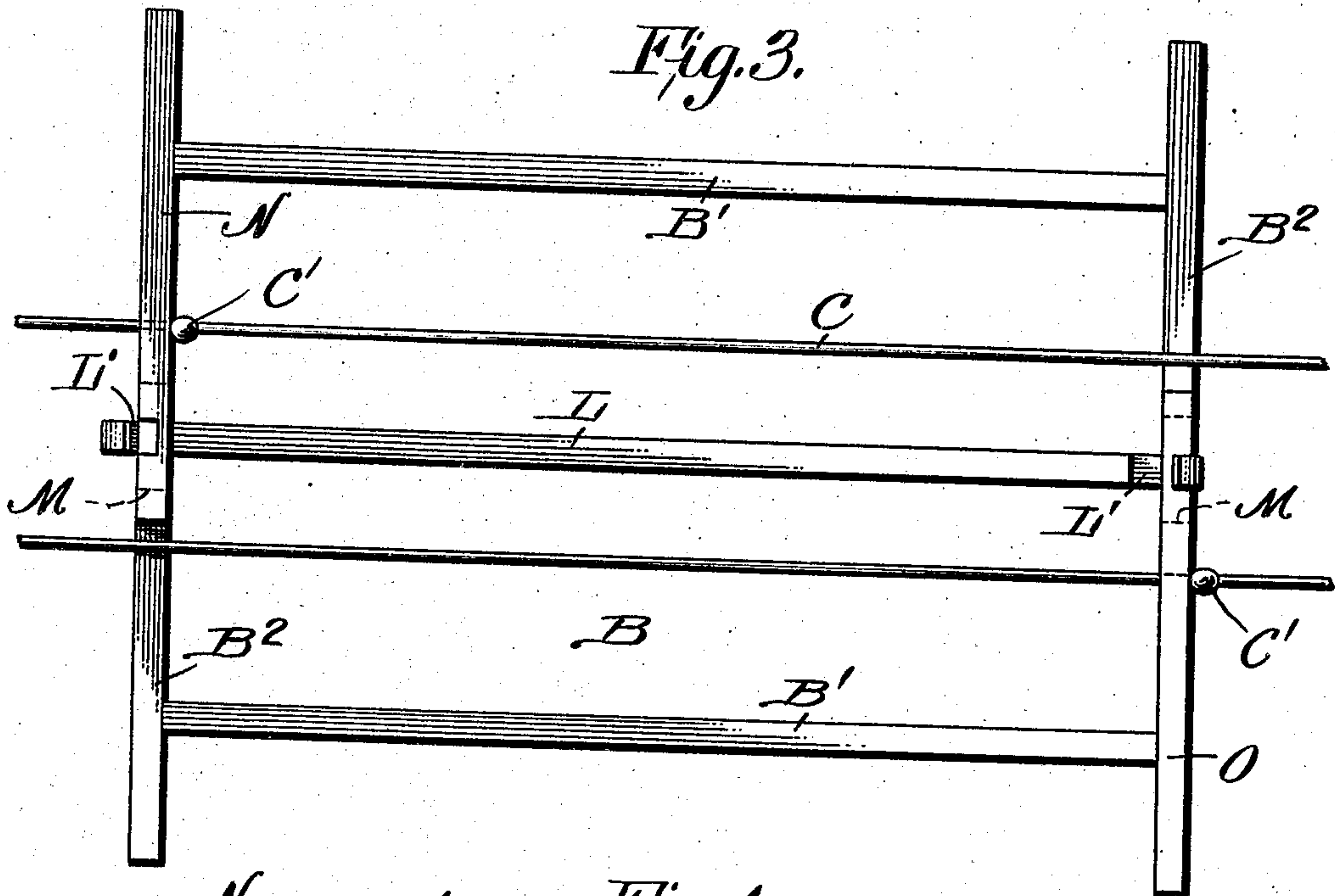
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2 SHEETS—SHEET 2.



Witnesses

Oliver M. Holmes
Rea B. Bright.

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John W. Hogue,
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UNITED STATES PATENT OFFICE.

JOHN W. HOGUE, OF PERRY, NEW YORK.

AUTOMATIC CURD-AGITATOR.

No. 894,649.

Specification of Letters Patent.

Patented July 28, 1908.

Application filed July 24, 1907. Serial No. 385,360.

To all whom it may concern:

Be it known that I, JOHN W. HOGUE, a citizen of the United States, residing at Perry, in the county of Wyoming and State of New York, have invented a new and useful Improvement in Automatic Curd-Agitators, of which the following is a specification.

This invention relates to curd agitators for making cheese, the object being to provide an agitator which will travel back and forth in the vat automatically.

Another object of my invention is to provide an agitator which is very simple and cheap in construction and one which is very effective in use as it can be readily applied to an ordinary vat.

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 drawings forming a part of this specification:—Figure 1 is a top plan view of a cheese vat showing my improvement applied. Fig. 2 is a longitudinal sectional view of Fig. 1. Fig. 3 is a top plan view of the agitator. Fig. 4 is a side view of the agitator partly broken away. Fig. 5 is an end view of the agitator.

Referring to the drawings A indicates an ordinary curd vat, B my improved agitator arranged therein and C the endless cable for operating the same.

Secured to the outside of the ends of the vat are spaced brackets D and E, provided with bearings D', E', in which are mounted vertical shafts F and G. Grooved pulleys H and I are secured on the respective shafts, in alinement with the top of the ends of the vat, on which is mounted the endless cable C which is provided with spaced knots C', for the purpose hereinafter fully described. The shaft F is provided with a pulley J at its upper end, over which passes a power belt J' it of course being understood that the shaft can be driven by any other suitable means desired for operating the endless cable.

The agitator comprises a frame formed of a pair of parallel bars B' connected together at their ends by cross bars B² which fit snugly between the side of the vat so as to prevent the frame from being twisted when reciprocated. The cross bars B² are provided with depending legs K and K' forming agitators. The legs K are provided with the spring-shoes

K' which rest on the supports of the vat and support the frame in alinement with the top of the vat.

The cross-bars B² are provided with central notches in which are slidably mounted the reduced end portions L' of a bar L which are held within the notches by plates M. The ends of the reduced end portions L are bent upwardly at an angle adapted to slide up over the beveled parts of the respective spring members N and O which are secured on opposite ends of the bars B² and project inwardly over the side runs of the cable, so that the springs will be locked over the cable, so as to prevent the knots of the cable from passing under the same, thereby causing the frame to reciprocate in the vat. The angled ends of the bars being forced over and off the spring alternately by coming into contact with upwardly projecting posts A' of the end of the vat, so that when the frame reaches the end of the vat, one spring will be released and allow the knot of the cable to pass under the same and the other spring will be locked so that the knot on the cable going in the opposite direction will be caught which will carry the agitator back against the other end of the vat when the aforesaid operation will be repeated.

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

1. The combination with a receptacle, of an endless cable mounted over said receptacle and an agitator mounted in said receptacle provided with means whereby said agitator will be locked to the side runs of the cable, alternately.

2. The combination with a vat, of an agitator mounted in said vat, an endless cable mounted over said vat, and spring arms carried by said agitator adapted to be locked over the side runs of the cable alternately, whereby the agitator will be reciprocated.

3. The combination with a vat, of an agitator mounted in said vat provided with spring arms, of an endless cable mounted over said vat, and means for locking and releasing said spring over said cable, alternately.

4. The combination with a vat, of an agitator mounted in said vat, an endless cable mounted over said vat, and means for grasping said cable alternately, whereby said agitator will be reciprocated.

5. The combination with a vat, of an agitator mounted in said vat, arms carried by said agitator, an endless knotted cable mounted over said vat, working under said arms of the agitator, and automatic means for locking and releasing said arms for the purpose described.

6. The combination with a vat, of an agitator mounted in said vat, an endless knotted cable mounted over said vat, spring arms carried by said agitator extending over the side runs of the cable, and automatic means for locking said spring arms alternately.

7. The combination with a vat, of an endless cable mounted over said vat provided with spaced knots, an agitator mounted in said vat provided with spring-arms extending over the side runs of the cable, and sliding

and locking means carried by the agitator adapted to be operated by engaging the ends of the vat.

8. The combination with a vat, of an endless cable mounted over said vat, provided with spaced knots, an agitator mounted in said vat, spring arms mounted on opposite ends and sides of said agitator, extending over the side runs of the cable and provided with beveled portions and a bar slidably mounted in the agitator provided with outwardly projecting angled ends adapted to be forced over the beveled portion by coming into engagement with the ends of the vat.

JOHN W. HOGUE.

Witnesses:

ROY WALKER,

ROBT. R. HOGUE.