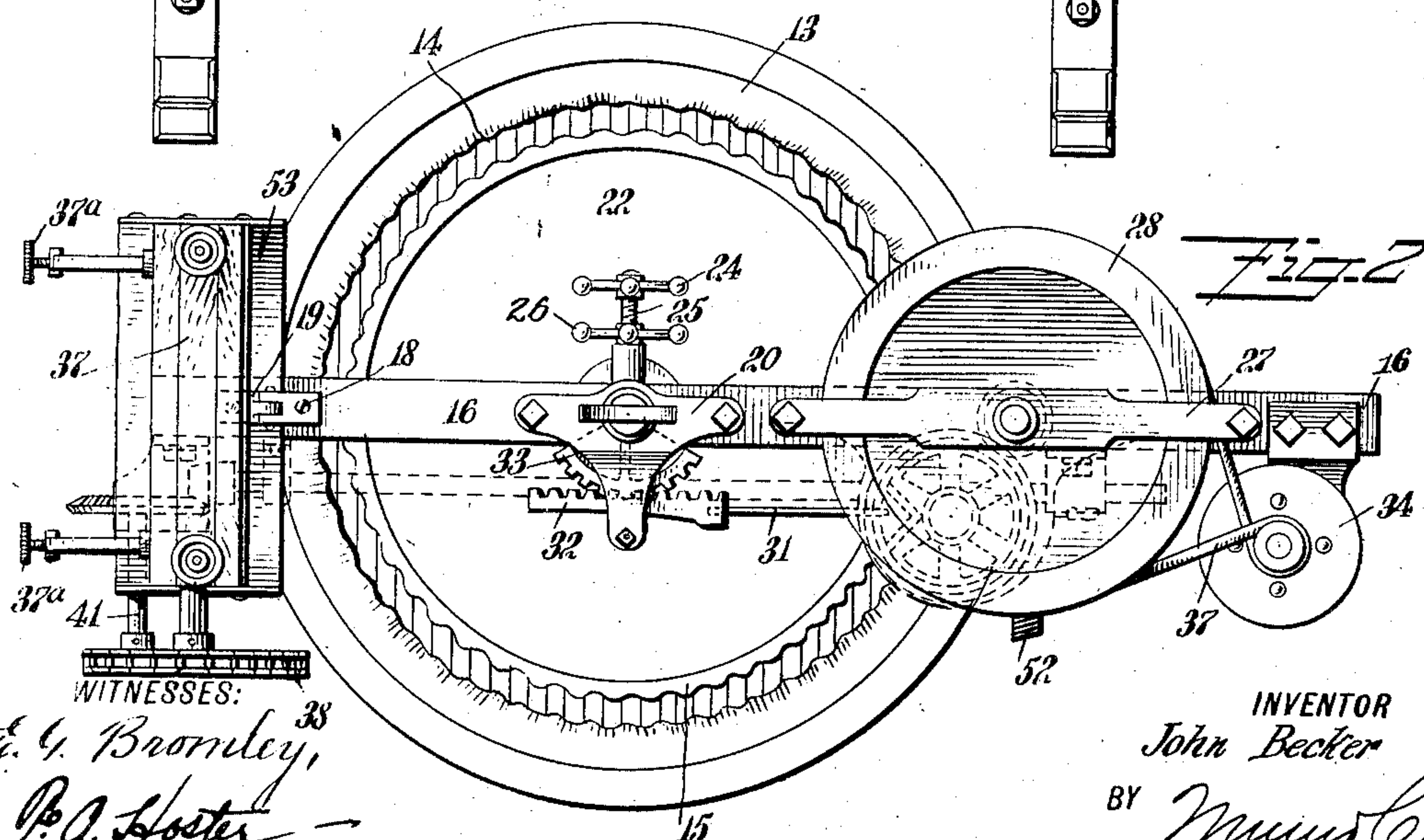
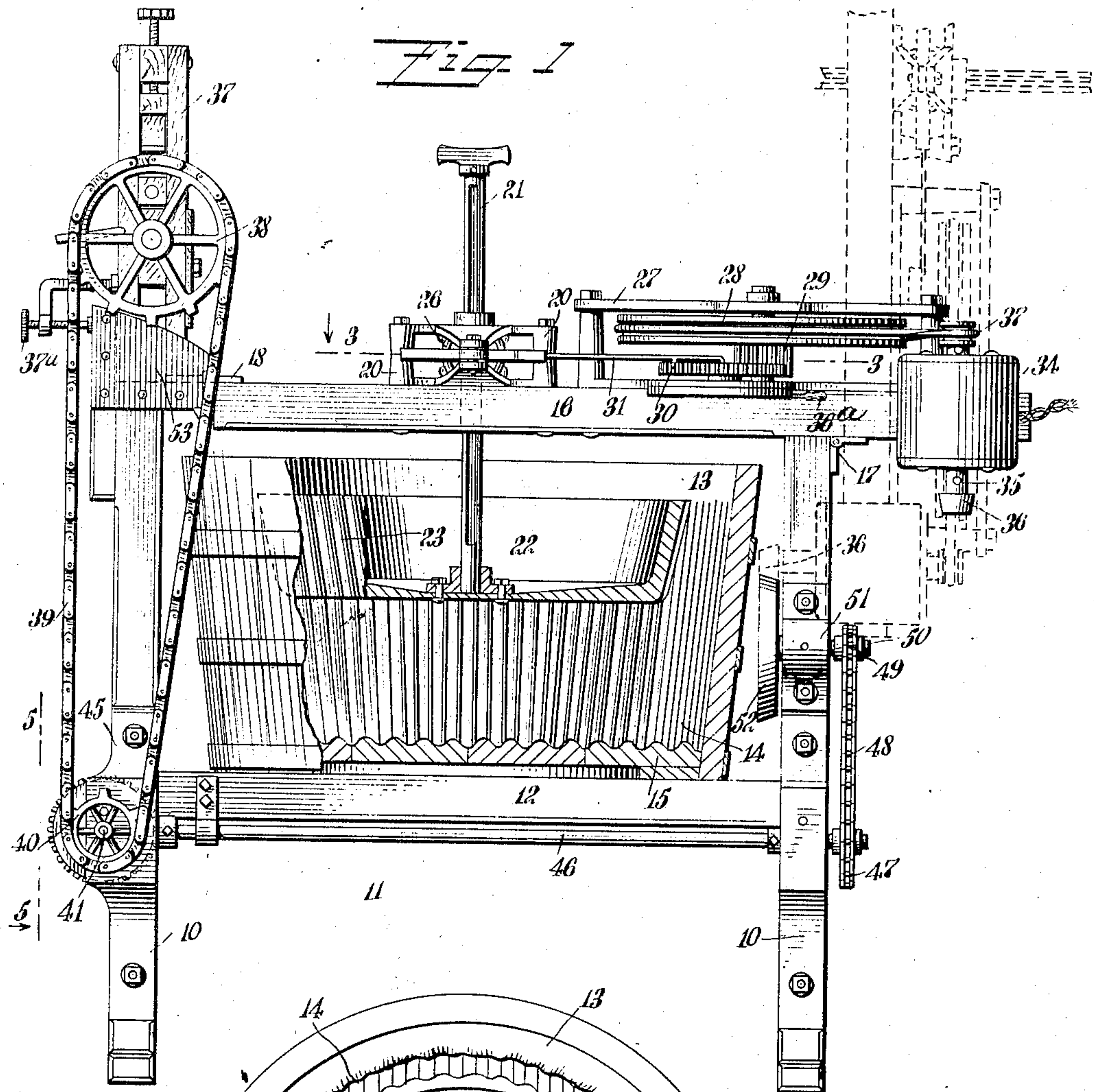


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2 SHEETS—SHEET 1.



WITNESSES:  
E. C. Bromley,  
P. A. Hoster

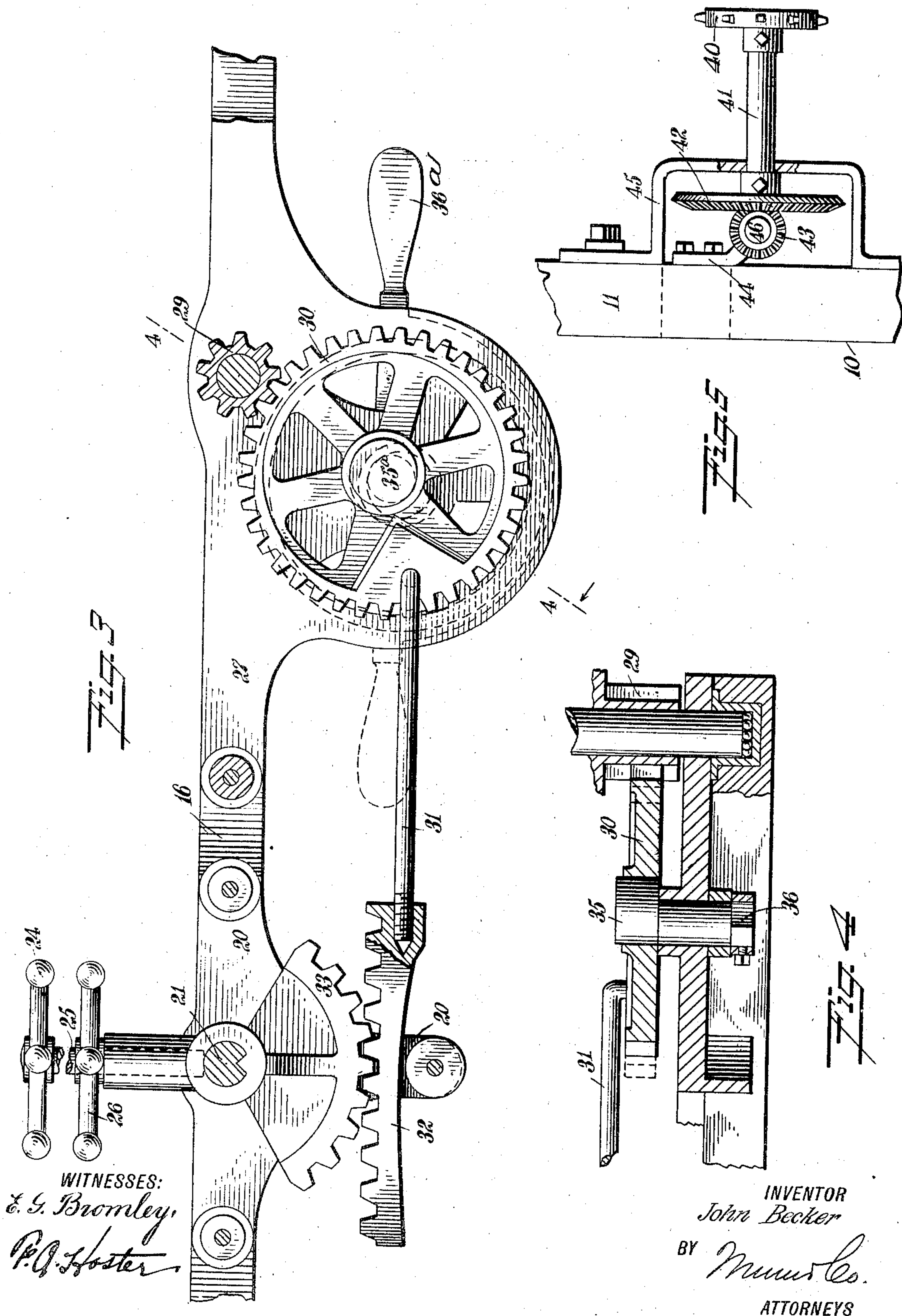
INVENTOR  
John Becker  
BY Munn & Co.  
ATTORNEYS

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# UNITED STATES PATENT OFFICE.

JOHN BECKER, OF CANAL DOVER, OHIO.

## DRIVING MECHANISM.

976,622.

Specification of Letters Patent.

Patented Nov. 22, 1910.

Application filed December 1, 1909. Serial No. 530,869.

*To all whom it may concern:*

Be it known that I, JOHN BECKER, a citizen of the United States, and a resident of Canal Dover, in the county of Tuscarawas and State of Ohio, have invented a new and Improved Driving Mechanism, of which the following is a full, clear, and exact description.

My invention relates to driving mechanisms more particularly for washing machines and the like, and has for an object to provide a driving mechanism for driving a washing machine, and a wringer mounted on the washing machine.

The purpose of my invention is to provide a driving mechanism for washing machines for quickly and efficiently washing materials and operated by a motor, and a wringer attached to the washing machine for wringing the materials that have been washed by the washing machine, the said wringer being adapted to be operated independently of the said washing machine but by the same motor used to operate the washing machine.

An embodiment of my invention partakes of a driving mechanism for washing machines and comprises a washing machine and a wringer independently operated by a motor secured to the framework of the washing machine.

A further embodiment of my invention comprises a tub provided with an agitator mounted on a movable member of a framework adapted to be moved into two active positions, the said agitator being operated by a motor secured to the said movable member when the same is in one position, and a wringer attached to the said framework and adapted to be operated by the said motor when the said movable member is in its other position.

My invention still further embodies certain features as will hereinafter be more fully described and specified and particularly set forth in the appended claim.

Reference is to be had to the accompanying drawings forming a part of this specification, in which similar characters of reference denote corresponding parts in all the views, and in which—

Figure 1 is a side elevation of my invention, parts being broken away to show the underlying structure and the dotted lines showing an active position of the motor and parts connected thereto, when the agitator

is removed from the tub; Fig. 2 is a plan view of my driving mechanism as applied to a washing machine; Fig. 3 is an enlarged fragmentary sectional view taken on the line 3—3 in Fig. 1; Fig. 4 is a sectional side view of one portion of the gearing of my mechanism, and the eccentric cut-out, taken on the line 4—4 in Fig. 3; and Fig. 5 is an enlarged sectional side view taken on the line 5—5 in Fig. 1, and showing the gearing employed to facilitate the operation of the wringer of my washing machine, operated by my driving mechanism.

Suitable standards 10, forming part of a framework 11, are provided, having a transverse member 12, on which is seated a tub 13 having corrugations 14 on the inner periphery of the same, and provided with a corrugated bottom 15. A movable member 16 is secured to the framework 11 by means of a hinge 17, the said hinge 17 being a distance from one end of the said member 16, as can be clearly seen by referring to Fig. 1. The other end of the member 16 has thereon a member 18, adapted to engage a member 19 and removably lock the movable member 16 to the framework 11. Centrally held on the movable member 16 are brackets 20, forming a bearing, and through the said brackets 20 and the movable member 16 is disposed an agitator shaft 21, having thereon an agitator 22 provided with corrugations 23, and extending a distance into the tub 13.

An adjusting wheel 24, secured to a screw 25 and having a locking wheel 26, is provided for adjusting the height of the agitator 22 in the tub 13. A bearing 27 is secured to the movable member 16, and mounted thereon is a horizontal belt pulley 28 having a gear wheel 29 integral therewith. A second gear wheel 30 is mounted on the movable member 16, and secured to the wheel is a pitman 31, connected to a toothed member 32 in engagement with a segmental gear 33 mounted in the brackets 20 and keyed to the agitator shaft 21.

A motor 34, having a shaft 35 provided with a bevel friction roller 36, is secured to the movable member 16, and a belt 37 connects the motor 34 with the belt pulley 28. The gear wheel 30 is loosely held on an eccentric shaft 35<sup>a</sup>, to which is secured a lever 36<sup>a</sup>, as can be seen by referring to Fig. 3.

A wash wringer 37 of any standard type is attached to the framework 11 by means of screws 37<sup>a</sup>, and provided with a sprocket



wheel 38, over which is passed a sprocket chain 39, the said chain also passing over a second sprocket wheel 40 mounted on a shaft 41. The other end of the shaft 41 has there-  
 5 on a bevel gear wheel 42, in mesh with a bevel wheel 43, carried by a shaft 46 mounted on the framework 11 by means of a bearing 44, and the shaft 41 is also mounted on the framework 11 by means of a bearing 45.  
 10 Mounted in bearings on the standards 10 and secured to the other end of the shaft 46 is a sprocket wheel 47, over which is passed a sprocket chain 48, the said chain also passing over a sprocket wheel 49 keyed to a  
 15 shaft 50 mounted in a bearing 51 on the framework 11. The other end of the shaft 50 has keyed thereon a bevel friction wheel 52. A shelf 53 is mounted on the framework 11 beneath the wringer 37.  
 20 The operation of my driving mechanism is as follows: The movable member 16 is raised to the position shown by the dotted lines in Fig. 1, and the materials to be washed are inserted in the tub, which has  
 25 been previously filled with water and the proper ingredients adapted to cleanse clothes or the like. The member 16 is then moved to the position shown in full lines in Fig. 1 and locked to the framework 11 by  
 30 means of the lock 18 on the member 16 and the catch 19 on the framework 11. The motor 34 is now started and causes the agitator 22 to operate and wash the clothes or materials in the tub 13. When the washing  
 35 operation is completed, the lever 36<sup>a</sup> is thrown to the position shown in dotted lines in Fig. 3, and this movement disengages the gear wheels 29 and 30, thereby causing the agitator 22 to cease operating. The lock 18  
 40 is then released and the movable member 16 is moved upward to the vertical position shown in dotted lines in Fig. 1. When the member 16 is in this position, the friction roller 36 on the motor 34 engages the friction  
 45 wheel 52 and by means of the different driv-

ing parts heretofore described the wringer 37 is set in operation and the clothes in the tub 13 are passed through the wringer 37 in the regular way. The shelf 53 beneath the wringer 37 catches the water which drips  
 50 from the clothes as they are passed through the wringer and causes it to return to the tub 13.

The driving mechanism as described and shown, is efficient, durable and exceptionally  
 55 simple to operate.

Although I have shown an electric motor to operate the agitator and wringer, it will be easily seen that any convenient kind of motor can be used with satisfactory results.  
 60

It will be understood that I do not limit myself to the precise construction as shown in the drawings, the scope of my invention being fully defined in the appended claim.

Having thus described my invention, I  
 65 claim as new and desire to secure by Letters Patent:

In combination, two active mechanisms, a movable member having one of said mechanisms mounted thereon and the said member  
 70 being movable into two active positions, driving means on the member, adapted to operate the mechanism on the member when the member is in one active position and the said driving means being adapted to op-  
 75 erate the other mechanism when the said member is in its other active position, offset shaft means on the movable member for disengaging the mechanism on the movable member from the driving means and a re-  
 80 ciprocating shaft on the movable member adapted to be driven by the mechanism on the member.

In testimony whereof I have signed my name to this specification in the presence  
 85 of two subscribing witnesses.

JOHN BECKER.

Witnesses:

ED. C. SEIKEL,  
 BERTHA SEIKEL.