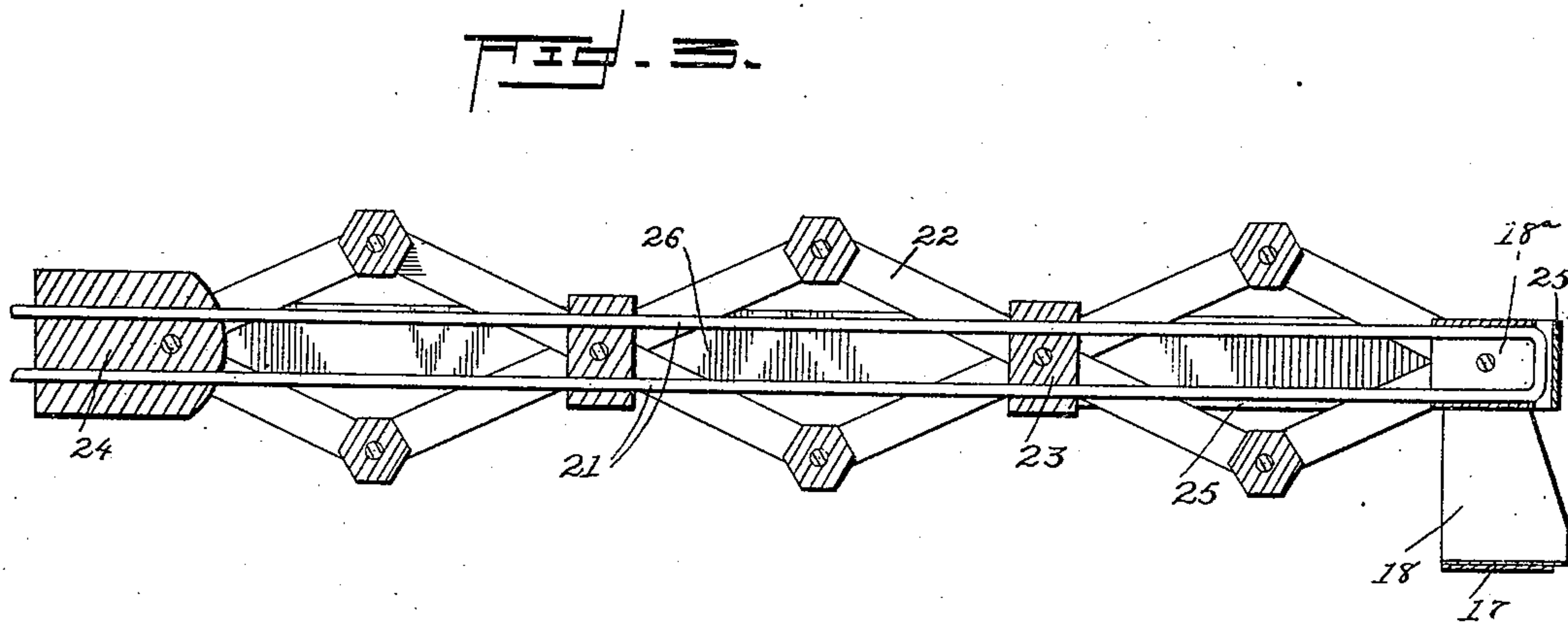
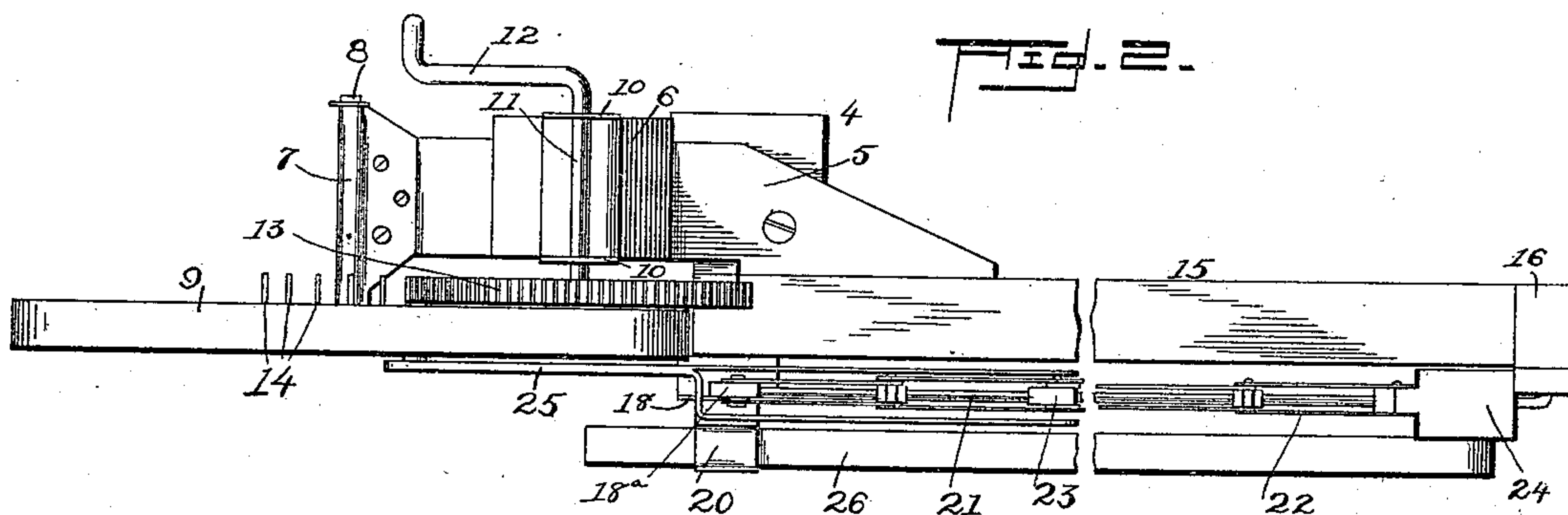
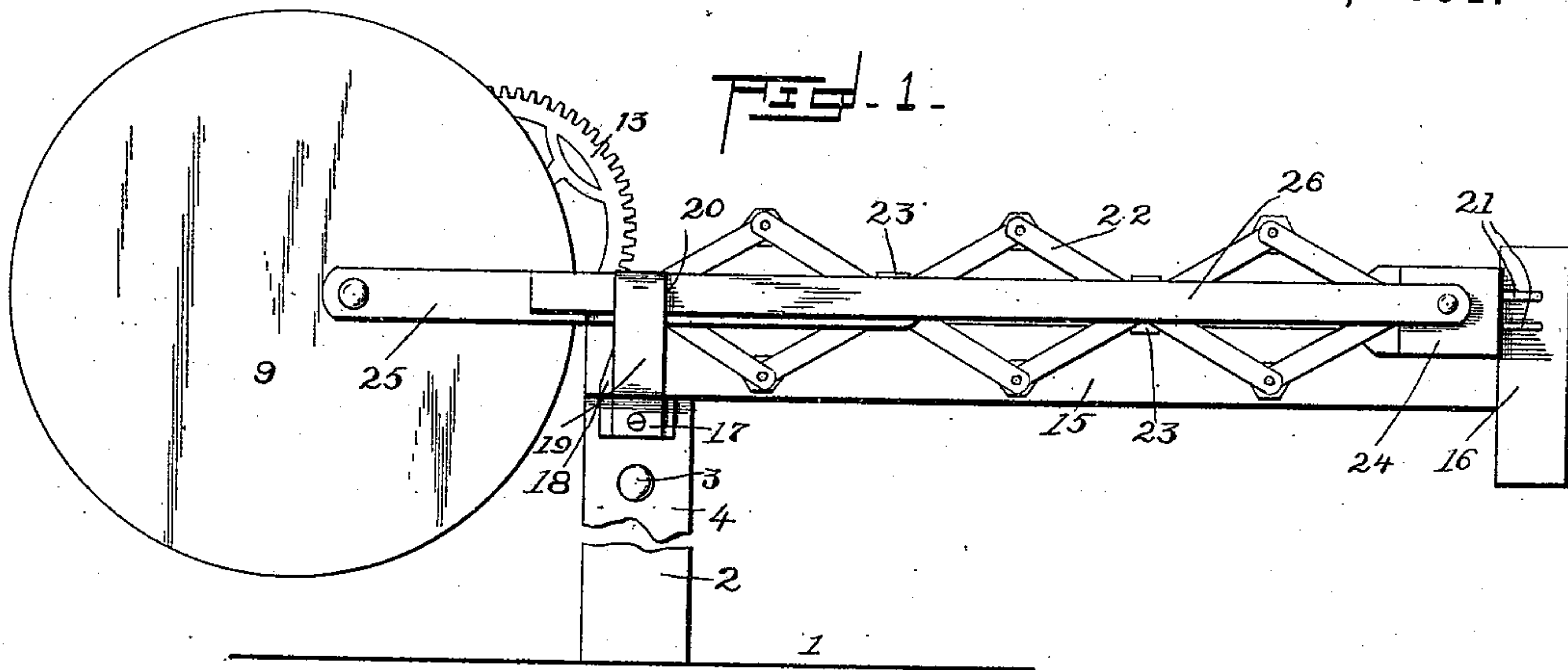


(Model.)

G. W. BAKER.
MECHANICAL MOVEMENT.

No. 446,318.

Patented Feb. 10, 1891.



Witnesses

E. A. Duvall
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Inventor

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UNITED STATES PATENT OFFICE.

GEORGE W. BAKER, OF COLMESNEIL, TEXAS.

MECHANICAL MOVEMENT.

SPECIFICATION forming part of Letters Patent No. 446,318, dated February 10, 1891.

Application filed September 20, 1890. Serial No. 365,659. (Model.)

To all whom it may concern:

Be it known that I, GEORGE W. BAKER, a citizen of the United States, residing at Colmesneil, in the county of Tyler and State of Texas, have invented a new and useful Mechanical Movement, of which the following is a specification.

My invention relates to a mechanical movement which is adapted for the operation of numerous devices—such, for instance, as a saw, a churn, or any other device which requires a reciprocating movement; and it consists in features of novelty to be hereinafter described, and then particularized in the claims.

In the accompanying drawings, Figure 1 is a side view of the device. Fig. 2 is a top view thereof, a portion being broken away, so as to show it enlarged. Fig. 3 is a section.

1 represents the base, 2 an upright projecting therefrom, and 3 the pivot on which is hung the device proper.

4 is a pivoted support journaled on pivot 3, carrying at its upper end a cross-piece 5, which extends considerably to one side, and has fixed thereto a block 6 and journal box or bearing 7 to receive the axle 8 of a large wheel 9. Block 6 is provided with bearings 10 to receive a shaft 11, which is provided at one end with a crank 12 and at its other end with a cog-wheel 13, lying close to said large wheel, and the teeth of which are adapted to engage a circular series of pins 14, projecting from the side of said large wheel 9 and arranged concentrically with the axle of said wheel. At the end of said cross-piece 5, opposite the cog-wheel, projects in line therewith an extension 15, having at its outer end a head 16.

17 is a bracket projecting from pivoted support 4, extending beyond said wheel 9 and provided with parallel upward extensions 18 and 19, the latter of which, which is the outside one, having a socket 20 at top. Fixed in a head 18^a, at the upper end of the inner upward extension 18, are parallel guide-wires 21, running alongside said extension 15 and secured at their outer ends to the head 16.

22 represents a lazy-tongs, the intersections of which are provided with slide-blocks 23, and the inner end of which is pivoted to the upper end of the extension 18, the outer end

being pivoted and carrying a slide-head 24. The slide-blocks and slide-head slide on the parallel guide-wires 21. The inner slide-block is connected with the outer end of a bifurcated pitman 25, extending from the side of wheel 9, the bifurcations of which extend on each side of said tongs. The reciprocating bar 26, guided by socket 20, projects toward wheel 9 from sliding head 24.

The operation of the device from the above description will be understood to be as follows: When the crank 12 is turned, the wheel 9 will be operated, thus throwing into operation the lazy-tongs through the medium of the pitman, the slide-blocks and the slide-head of said tongs reciprocating on the guide-wires and the reciprocating bar 26 moving back and forth in its socket. Considerable motion is gained by this construction of device, in that the reciprocating bar or carrier is caused to move through the medium of the lazy-tongs a little more than twice as far as the reciprocating pitman.

When the device is swung on its pivot 3 into horizontal position, as shown in the drawings, it is adapted for the operation of a saw, which may be attached to the reciprocating bar or carrier. When it is swung into a vertical position, it is adapted for the operation of a churn.

What is claimed as new is—

1. In a mechanical movement, the combination of an upright, the pivoted support mounted on the upright, the wheel 9, the pitman 25, connected therewith, means for rotating the wheel 9, lazy-tongs connected with said pitman 25, the guide 21 for the lazy-tongs, and the reciprocating carrier operated by said lazy-tongs, substantially as described.

2. In a mechanical movement, the combination of an upright, the pivoted support mounted on the upright and adapted to assume a horizontal or a vertical position, the carrier arranged to reciprocate on the support, and means for reciprocating the carrier, substantially as described.

3. In a mechanical movement, the combination of an upright, the support 4, pivoted to the upright, the wheel 9, means for operating the wheel 9, the lazy-tongs, the pitman connecting the wheel and the lazy-tongs, the guide for the lazy-tongs, and a bracket pro-

jecting from the pivoted support 4 and provided with a guide-socket for the reciprocating bar, substantially as described.

4. In a mechanical movement, the combination of an upright, the support 4, pivoted to the upright, the wheel 9, the lazy-tongs, the pitman connecting the lazy-tongs and the wheel, a support for one end of the lazy-tongs, a sliding head at the other end of the lazy-tongs, a guide on which the head slides, and a reciprocating bar secured to the sliding head, substantially as described.

5. In a mechanical movement, the combination of an upright, the pivoted support mounted on the upright, the wheel 9, the lazy-tongs, the pitman connecting the wheel and the lazy-tongs, the sliding blocks at the intersections of the tongs, a sliding head at one end of the lazy-tongs, and a reciprocating bar secured to the sliding head, substantially as described.

6. In a mechanical movement, the combination of an upright, the pivoted support mounted on the upright, a wheel 9, means for operating the wheel, the lazy-tongs, a pitman connecting the wheel and the lazy-tongs, a bracket from the pivoted support and provided with two extensions, to one of which one end of the lazy-tongs is connected, and a reciprocating bar carried by the other end of the lazy-tongs, the other of said extensions being provided with a socket to receive the said reciprocating bar, substantially as described.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

GEORGE W. BAKER.

Witnesses:

W. M. SCOTT,
W. J. BLEWETT.