No. 850,928. PATENTED APR. 23, 1907.

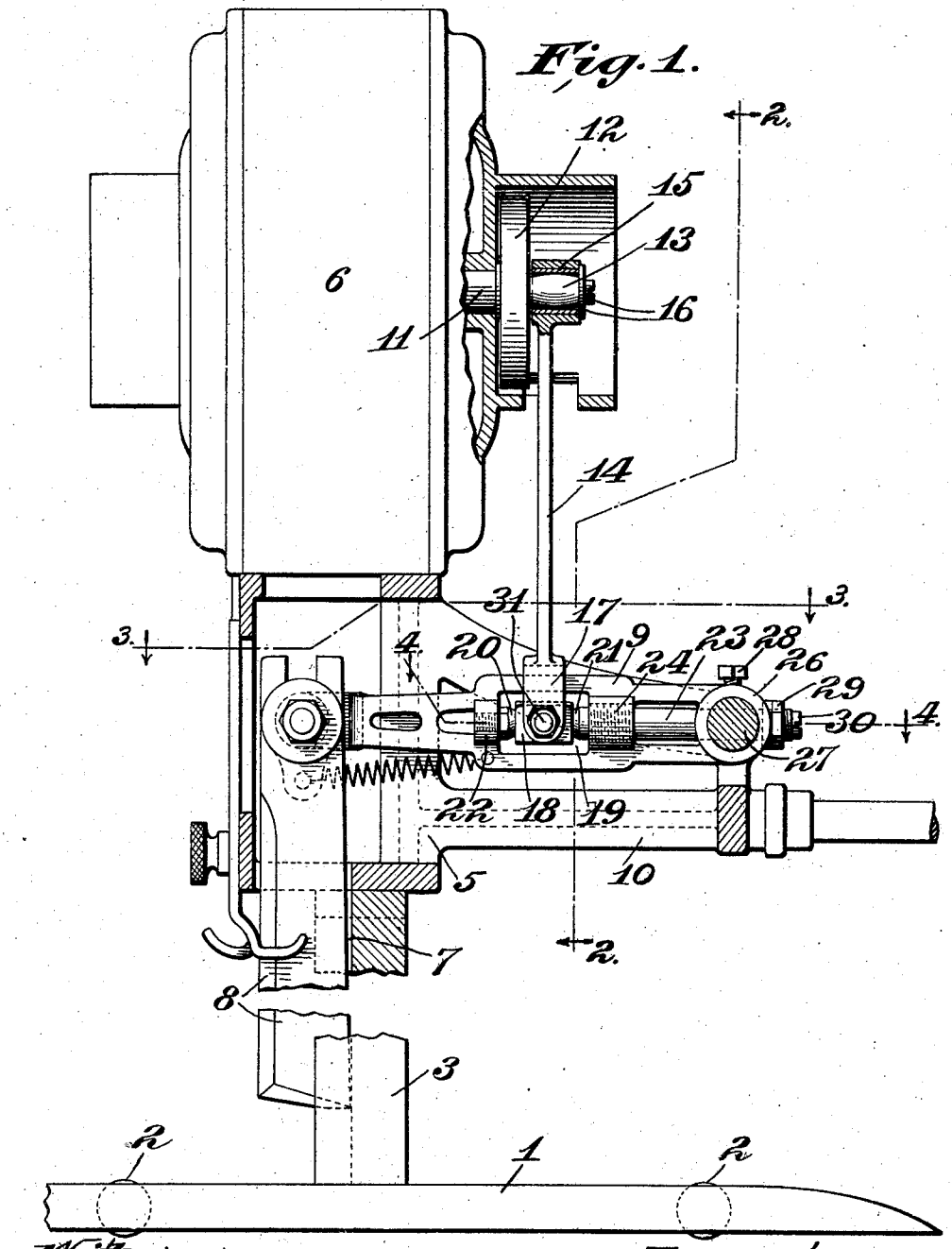
J. B. GURY.

CLOTH CUTTING MACHINE.

APPLICATION FILED DEC. 21, 1906.

2 SHEETS—SHEET 1.

Fig. 1.



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2 SHEETS—SHEET 2.

Fig. 2.

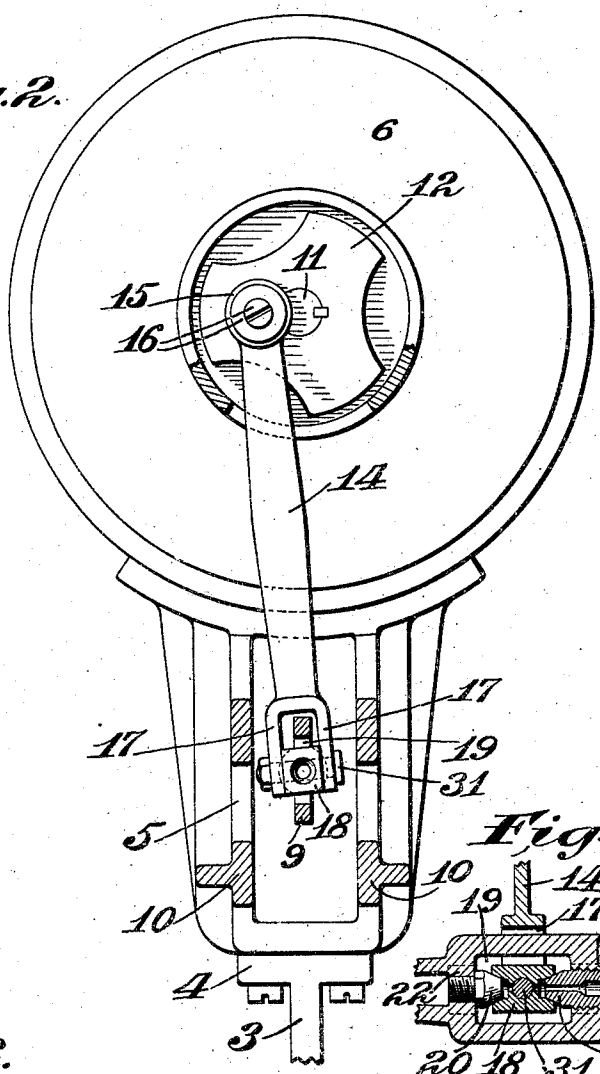


Fig. 4.

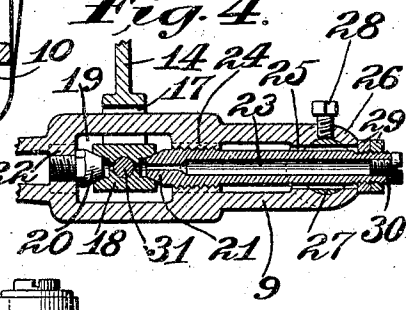
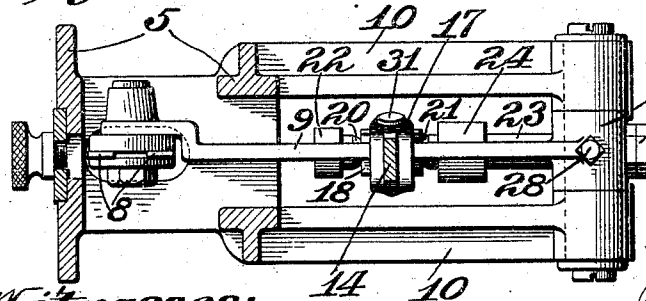


Fig. 3.



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UNITED STATES PATENT OFFICE.

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CLOTH-CUTTING MACHINE.

No. 850,928. Specification of Letters Patent. Patented April 23, 1907.

Application filed December 21, 1906. Serial No. 348,891.

To all whom it may concern:

Be it known that I, JOHN B. GURY, a citizen of the United States, and a resident of the city of St. Louis and State of Missouri, have invented a new and useful Improvement in Cloth-Cutting Machines, of which the following is a specification.

My invention relates to cloth-cutting machines, and has for its principal objects to minimize the friction, to minimize pulsation, and to simplify and improve the mechanical construction.

The invention consists in the parts and in the arrangements and combinations of parts hereinafter described and claimed.

In the accompanying drawings, which form part of this specification, and wherein like symbols refer to like parts wherever they occur, Figure 1 is a side elevation of a cutting-machine embodying my invention, portions being shown in section. Fig. 2 is a rear elevation of the upper portion of the machine, partly in section, on line 2 2 of Fig. 1, the cutting-blade and associate parts being omitted. Fig. 3 is a section on the line 3 3 of Fig. 1, and Fig. 4 is a section on the line 4 4 of Fig. 1.

The cutting-machine is mounted upon a base 1, which is supported on rollers 2. A standard 3 is mounted on the base and has a table-like portion 4 at its top. Upon the table 4 is secured a skeleton frame 5. A motor frame or casing 6 is screwed or otherwise fastened on the skeleton frame in such a manner that its weight is symmetrically distributed and balanced above the standard 3.

The standard 3 is preferably made of a single piece and is provided with a slot or slideway 7, which serves as a guide for a knife 8. The upper end of the knife is bifurcated and projects above the top of the standard 3 and is secured to a rock-lever 9. This rock-lever is pivotally mounted on a bracket extension 10 of the skeleton frame 5 and is adapted to oscillate in a vertical plane in line with the motor-shaft 11. On the end of the motor-shaft is fixed a balanced crank 12, which carries a wrist-pin 13. This wrist-pin is slightly globular in shape to allow for a slight swing of a connecting-link 14 in a direction at right angles to the direction of oscillation caused by the movement of the crank 12. The link 14 is provided with a cylindrical sleeved portion 15, which is held in place on the wrist-pin 13 by a washer and securing-screw 16, sufficient clearance being allowed to permit of a very slight endwise movement of the sleeve on said wrist-pin. The opposite end of the link 14 is forked, thereby providing parallel ears 17, which are adapted to straddle the rock-lever 9, to which said forked end is connected by a peculiar construction of universal coupling. This coupling comprises a swivel-block 18, which is free to move within an opening 19, provided near the middle of the rock-lever 9.

The block 18 is provided with tapered openings in each end, which are adapted to receive the conical portions of supporting members or trunnions 20 and 21, respectively. The trunnion 20 is preferably a threaded stud and is screwed into a threaded opening in a boss 22 at one side of the opening 19. The trunnion 21 is preferably an integral part of an elongated tubular member 23, which is provided with a threaded portion which is screwed into a threaded opening in a boss 24 at the side of the opening 19 opposite and in alinement with the opening in the boss 22. The tubular member 23 extends rearwardly through an opening 25 in the sleeved bearing portion 26 of the rock-lever 9 and a registering opening in a rock-shaft 27, upon which the rock-lever 9 is secured by a set-screw 28. The outer end of the tubular member 23 is threaded to receive locking-nuts 29, which are adapted to impinge against a flattened portion at the end of the rock-lever. Thus the member 23 may be adjusted to take up the wear of the trunnion 21 and for other purposes and is securely locked in position by the nuts 29.

The tubular member 23 is adapted to contain a lubricant, and its outer end is closed by a screw-plug 30. The inner or trunnion end is provided with a small aperture through which the lubricant is fed to the bearing in the swivel-block 18. The trunnion-bearings in the swivel-block are connected by a small duct, which is intersected by the opening for the pivot-bolt 31 for the link 14. Thus the respective bearings in the swivel-block are intercommunicating and all are supplied with lubricant from a single source.

Obviously my device is capable of considerable modification within the scope of my invention, and therefore I do not wish to be limited to the specific construction shown and described.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. A cloth-cutting machine comprising a

base, a standard thereon, a motor mounted on said standard, a rock-lever mounted in the plane of the motor-shaft, a link eccentrically connected to said motor-shaft, and also connected to said rock-lever by a universal coupling comprising a swivel-block mounted on said rock-lever and having a pivotal connection with said link, and a knife operatively connected to said rock-lever.

2. A cloth-cutting machine comprising a base, a standard thereon, a motor mounted on said standard, a rock-lever mounted in the plane of the motor-shaft, a link eccentrically connected to said motor-shaft, and also connected to said rock-lever by a universal coupling comprising a swivel-block having a pivotal connection with said link, and conical trunnions on said rock-lever for said swivel-block, and a knife operatively connected to said rock-lever.

3. A cloth-cutting machine comprising a base, a standard thereon, a motor mounted on said standard, a rock-lever mounted in the plane of the motor-shaft, a link eccentrically connected to said motor-shaft, and also connected to said rock-lever by a universal coupling comprising a swivel-block having a pivotal connection with said link, and adjustable trunnions on said rock-lever for said swivel-block, and a knife operatively connected to said rock-lever.

4. A cloth-cutting machine comprising a base, a s andard thereon, a motor mounted on said standard, a rock-lever mounted in the plane of the motor-shaft, a link eccentrically connected to said motor-shaft, and also connected to said rock-lever by a universal coupling comprising a swivel-block having a pivotal connection with said link, and trunnions on said rock-lever for said swivel-block, one of said trunnions comprising an elongated member having a threaded engagement with said rock-lever and being also provided with an additional threaded portion, and lock-nuts on said threaded portion adapted to secure said trunnion in position, and a knife operatively connected to said rock-lever.

5. A cloth-cutting machine comprising a base, a standard thereon, a motor mounted on said standard, a rock-lever mounted in the plane of the motor-shaft, a link eccentrically connected to said motor-shaft, and also connected to said rock-lever by a universal coupling comprising a swivel-block having a pivotal connection with said link, and trunnions on said rock-lever for said swivel-block, one of said trunnions being adjustable, and means for securing said adjustable trunnion in position, and a knife operatively connected to said rock-lever.

6. A cloth-cutting machine comprising a base, a standard thereon, a motor mounted on said standard, a rock-lever mounted in the plane of the motor-shaft, a link eccentrically connected to said motor-shaft, and also connected to said rock-lever by a universal coupling comprising a swivel-block having a pivotal connection with said link, and trunnions on said rock-lever for said swivel-block, one of said trunnions comprising a tubular member adapted to contain and feed a lubricant for the respective bearings in said swivel-block.

7. A cloth-cutting machine comprising a base, a standard on said base, a motor mounted on said standard, a rock-lever mounted in the plane of the motor-shaft, a link eccentrically connected to said motor-shaft, and also pivotally connected to a swivel-block, trunnions on said rock-lever for said swivel-block, said swivel-block having seats for said trunnions and a duct communicating with said seats, and also having an opening for the pivot-pin for said link connection, said last-named opening intersecting said duct, one of said trunnions comprising a tubular member adapted to contain and feed a lubricant to said duct.

8. A cloth-cutting machine comprising a base, a standard thereon, a motor mounted on said standard, a rock-lever mounted in the plane of said motor-shaft, a globular wrist-pin eccentrically mounted on said shaft, a swivel-block mounted on said rock-lever, a link pivotally secured on said globular wrist-pin, and pivotally connected to said swivel-block, and a knife operatively connected to said rock-lever.

Signed at St. Louis, Missouri, this 18th day of December, 1906.

JOHN B. GURY.

Witnesses:
JAMES A. CARR,
J. B. MEGOWN.