

No. 819,615.

PATENTED MAY 1, 1906.

W. E. STIRLING.
DIE ATTACHMENT FOR PAPER CUTTERS.
APPLICATION FILED JUNE 7, 1905.

2 SHEETS—SHEET 1.

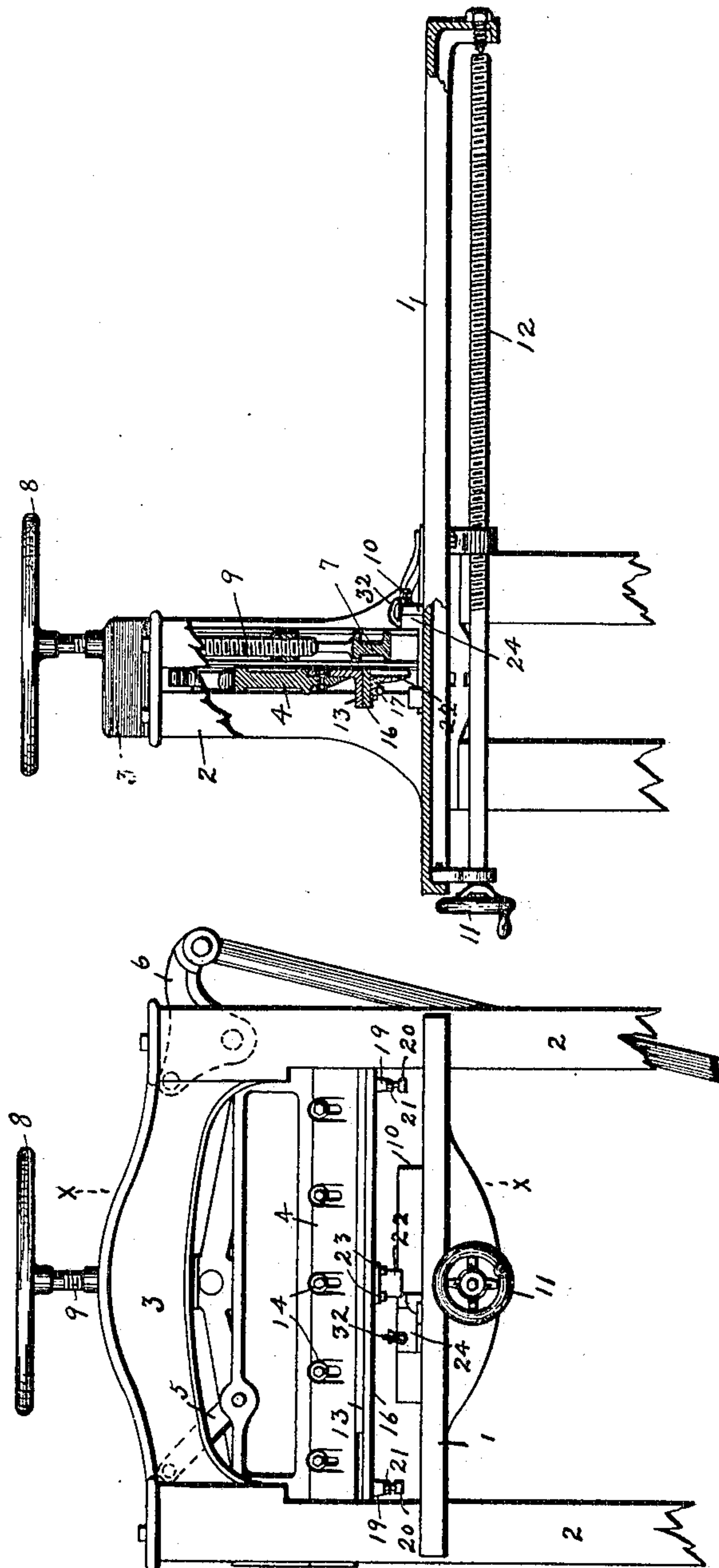


Fig. 2.

Fig. 1.

WITNESSES
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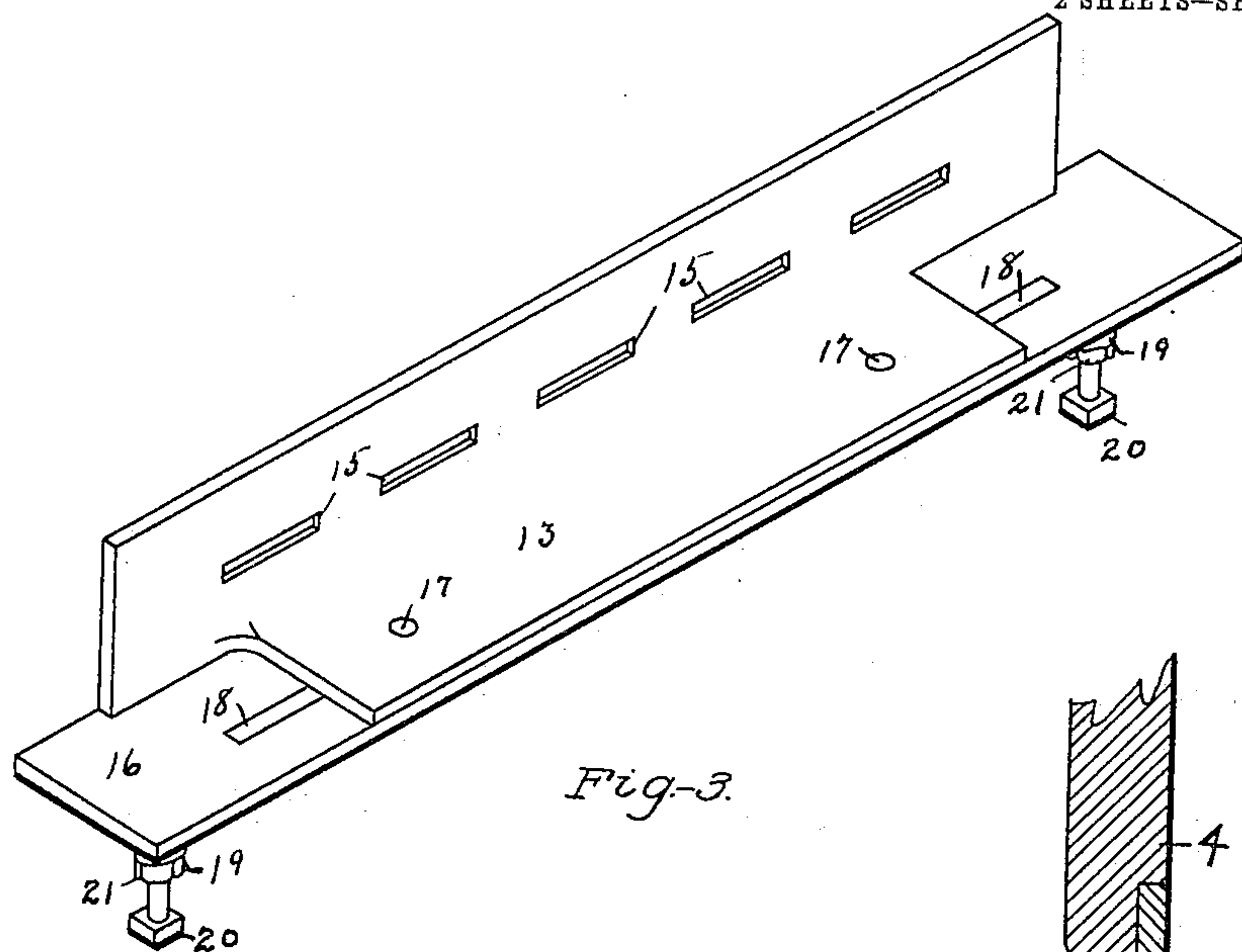


Fig-3.

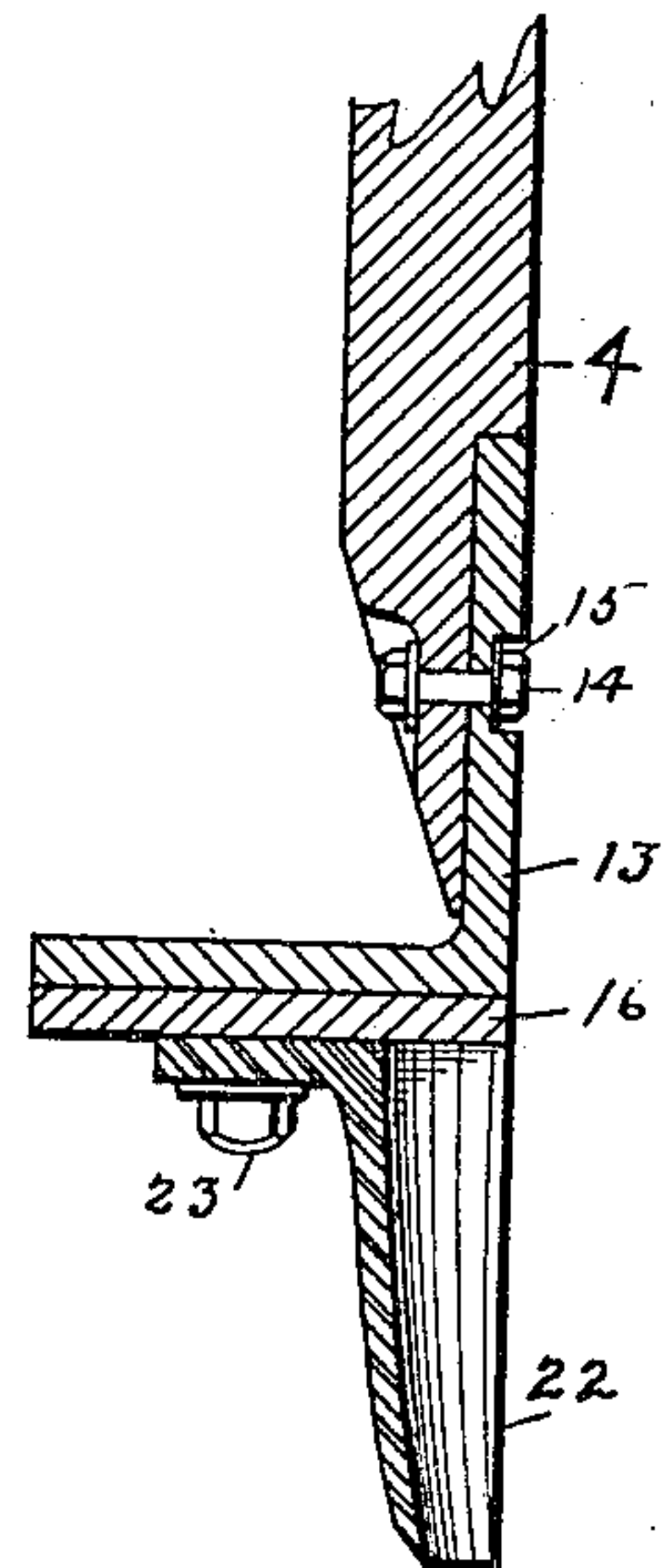


Fig-5.

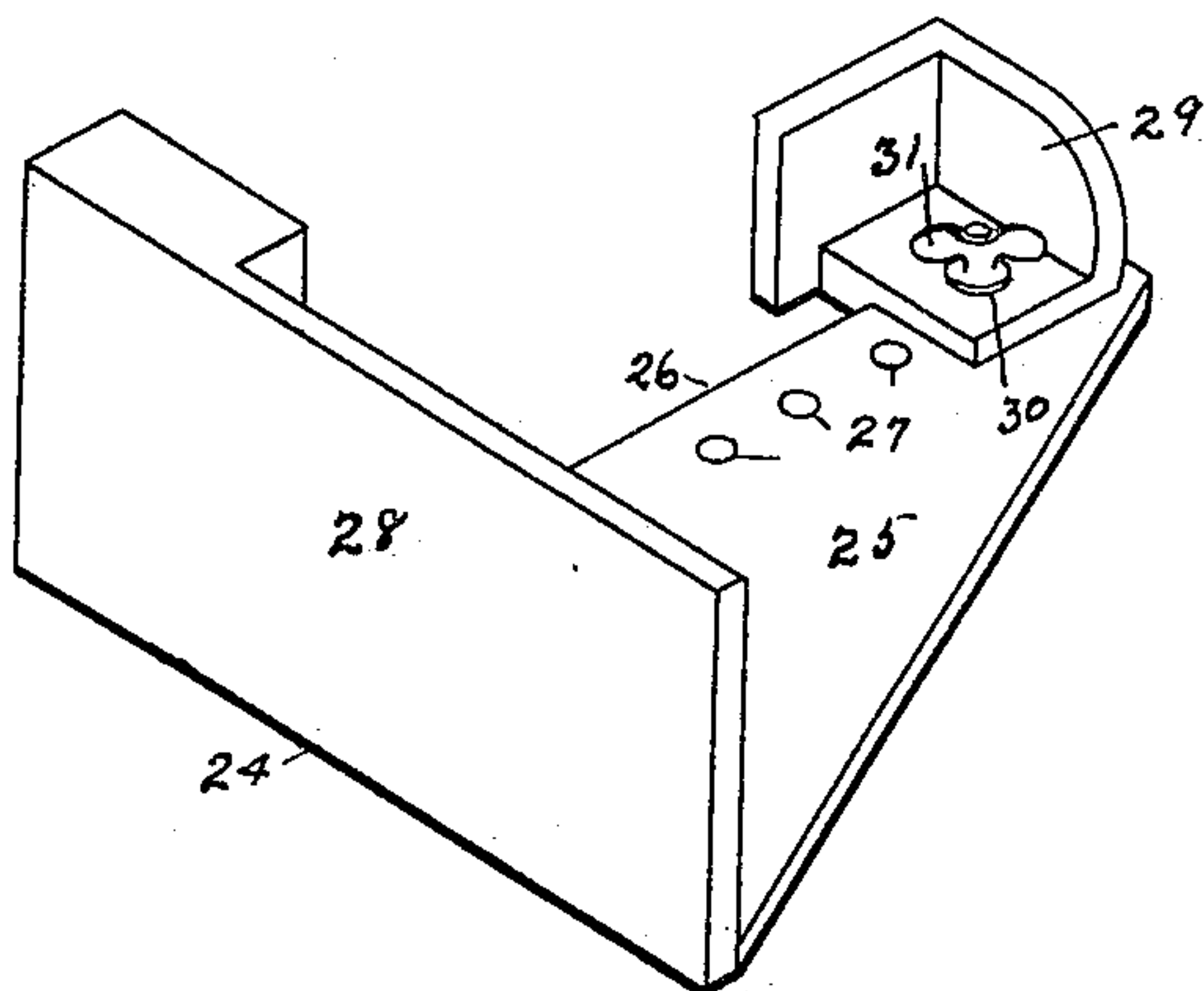


Fig-4.

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UNITED STATES PATENT OFFICE.

WILLIAM E. STIRLING, OF BALTIMORE, MARYLAND.

DIE ATTACHMENT FOR PAPER-CUTTERS.

No. 819,615.

Specification of Letters Patent.

Patented May 1, 1906.

Application filed June 7, 1905. Serial No. 264,054.

To all whom it may concern:

Be it known that I, WILLIAM E. STIRLING, a citizen of the United States, residing at Baltimore, in the State of Maryland, have invented certain new and useful Improvements in Die Attachments for Paper-Cutters, of which the following is a specification.

This invention relates to improvements in die-cutting attachments for paper-cutters.

The object of the invention is to provide a cheap, simple, and efficient device adapted to be used upon any size or style of paper-cutter for cutting labels of various sizes and shapes and of such construction as to permit the die to travel on a true vertical line while the knife-bar is traveling on an incline, also to provide a side guide for the labels into which the die projects.

Other features of my invention will be fully set forth in the following specification and pointed out in the claims.

In the accompanying drawings, Figure 1 is a front elevation, partly broken away, of a cutter having my improved device affixed thereon. Fig. 2 is a vertical section on the line X X of Fig. 1. Fig. 3 is a perspective view of the angle-bar and the die-carrying bar, the die being omitted. Fig. 4 is a detailed perspective view of the side guide. Fig. 5 is a detailed vertical section of the angle-bar, the die-carrying bar, and the die.

Referring to the accompanying drawings, in which similar reference-numerals designate like parts, 1 designates a table having a standard 2 at each side and a cross-head 3 connecting the said two standards. The knife-bar 4 is connected to the cross-head by a link 5 and the bell-crank lever 6, which latter is also connected to a rod leading to a suitable lever (not shown) for operating the knife-bar 4. Back of the cutter-bar 4 is a clamping-bar 7 for clamping the paper to be cut. This clamping-bar 7 is raised and lowered by a hand-wheel 8 and screw 9, which latter projects through the cross-head 3. The table 1 is provided with a back gage 10, operated by a hand-wheel 11 at the front of the table and a worm 12, extending under the table.

The parts heretofore described are well known in the art and form no part of my present invention.

The angle-bar 13 is secured to the knife-bar by first removing the blade usually employed in cutting paper and inserting the upper angle of the bar 13 up behind the knife-bar 4 in

the same position as that occupied by the said blade and held thereto by the bolts 14, passing through the elongated slots 15 in the upper angle of the bar 13. The elongated slots 15 permit the bar 13 to be used with any size cutter and provide for the variation in the number and distance between the holes in the knife-bar 4. The lower angle of the bar 13 is shorter than the upper angle, which permits of the inclined movement of the said bar between the standards 2. The die-carrying bar 16 has its ends impinging against the standards 2 and is held to the lower surface of the bar 13 by two bolts 17, passing through the elongated slots 18 and into the bar 13. The elongated slots 18 permit the bar 13 to slide along the upper surface of the die-carrying bar 16 when the latter is raised or lowered, whereby the die will be raised and lowered in a true vertical line while the knife-bar is raised and lowered on an incline, owing to the ends of the bar 16 impinging against the standards 2. The die-carrying bar 16 is provided on its lower surface near the ends thereof with two internally-threaded lugs 19, each provided with a set-screw 20 and a lock-nut 21. These set-screws 20 serve as stops to limit the downward movement of the die. The die 22 is secured to the lower surface of the bar 16 by screws 23 and may be of any desired shape.

The side guide 24 is constructed with a flat bottom 25 cut out at 26 on one side and provided with a plurality of holes 27 and an upward extension 28 at the rear. A guide-piece 29 is adapted to slide along the edge of the guide 24 and is provided with a threaded aperture 30 and a thumb-screw 31 to fit any of the holes 27. This guide 24 is secured to the back gage 10 by a C-clamp 32. The paper from which the labels are to be cut rests against the side guide 24, and the die 22 projects into the cut-out 26, which insures the edges of the labels being cut clean.

Having thus described my invention, what I claim is—

1. A die attachment for paper-cutters, comprising an upper bar, and a lower bar slidably connected to the upper bar whereby when the said upper bar is raised or lowered on an incline the lower bar will be raised or lowered vertically.

2. A die attachment for paper-cutters, comprising an upper bar, a lower bar slidably connected to the upper bar, whereby when

the said upper bar is raised or lowered on an incline the lower bar will be raised or lowered vertically, and a die carried by the lower bar.

3. A die attachment for paper-cutters, comprising an upper bar, a lower bar slidably connected to the upper bar whereby when the said upper bar is raised or lowered on an incline the lower bar will be raised or lowered vertically, stops on the lower surface of the lower bar, and a die carried by the said lower bar.

4. A die attachment for paper-cutters, comprising an angle-bar, a die-carrying bar slidably connected to the angle-bar whereby when the angle-bar is raised or lowered on an incline the die-carrying bar will be raised or lowered vertically, and a die carried by said die-carrying bar.

5. A die attachment for paper-cutters comprising an angle-bar, a die-carrying bar slidably connected to the said angle-bar whereby when the said angle-bar is raised or lowered on an incline the die-carrying bar will be raised or lowered vertically, stops on the lower surface of the die-carrying bar, and a die carried by said die-carrying bar.

6. In combination with a paper-cutter, of a die attachment comprising an upper bar attached to the knife-bar, a die-carrying bar slidably connected to the upper bar and having its ends impinging against the sides of the cutter whereby when the knife-bar is raised or lowered on an incline the die-carrying bar will be raised or lowered vertically.

7. In combination with a paper-cutter, of a die attachment comprising an angle-bar attached to the knife-bar, a die-carrying bar slidably connected to the lower angle of the angle-bar whereby when the said angle-bar is raised or lowered on an incline the die-carrying bar will be raised or lowered vertically, and a die carried by said die-carrying bar.

8. In combination with a paper-cutter, of a

die attachment comprising an angle-bar attached to the knife-bar, a die-carrying bar slidably connected to the lower angle of the angle-bar whereby when the said angle-bar is raised or lowered on an incline the die-carrying bar will be raised or lowered vertically, and having stops on its lower surface, and a die carried by said die-carrying bar.

9. In combination with a paper-cutter, of a die attachment comprising an angle-bar adapted to be attached to the knife-bar, a die-carrying bar slidably connected to the angle-bar, whereby when the said angle-bar is raised or lowered on an incline the die-carrying bar will be raised or lowered vertically, a die carried by said die-carrying bar, and a side guide into which the die projects when cutting.

10. In combination with a paper-cutter comprising a table, two standards on opposite sides of the table, a cross-head connecting the said standards, and a knife-bar pivoted to the cross-head, of a die attachment comprising an angle-bar carried by the knife-bar, a die-carrying bar slidably connected to the angle-bar and having its ends impinging against the said standards, whereby when the angle-bar is raised or lowered on an incline the die-carrying bar will be raised or lowered vertically.

11. The combination with the table, a back gage, and means for operating said back gage, of the side guide comprising a flat bottom having a cut-out at one side and a plurality of holes on said side, a vertical extension at the rear, and a guide-piece adapted to be adjusted along the side of the guide.

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

WILLIAM E. STIRLING.

Witnesses:

WM. SPILMAN,
E. T. RUDOLPH.