

L. C. JENSEN.
PERFORATING DEVICE.
APPLICATION FILED JUNE 15, 1912.

1,046,598.

Patented Dec. 10, 1912.

2 SHEETS—SHEET 1.

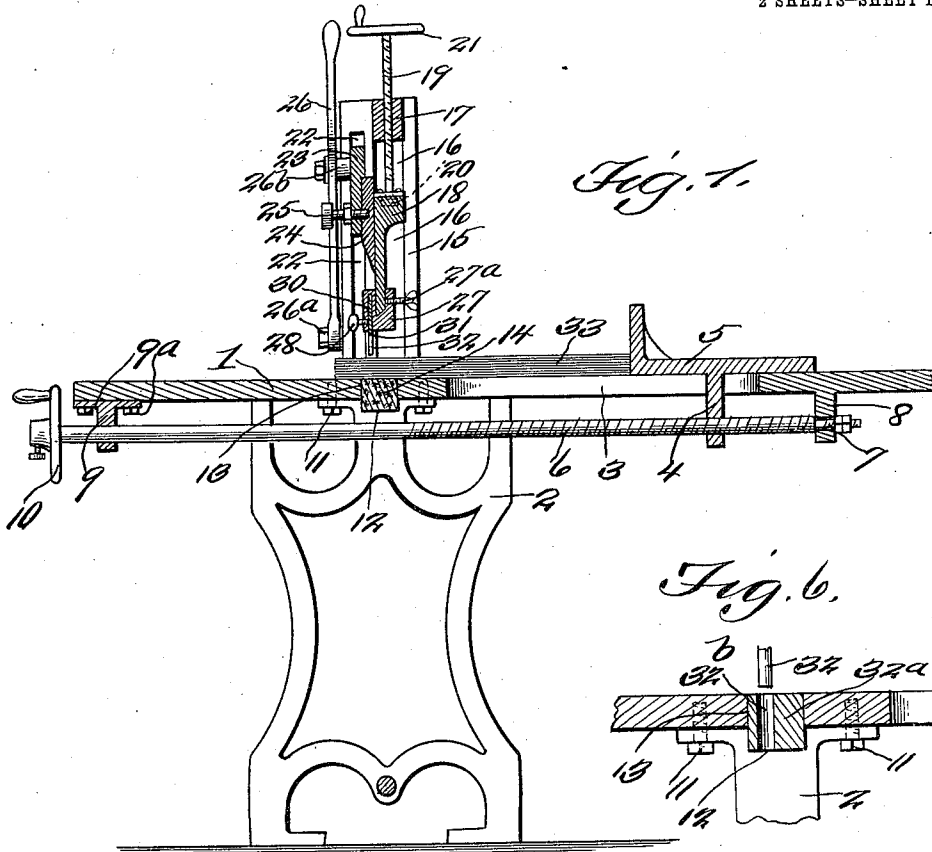


Fig. 1.

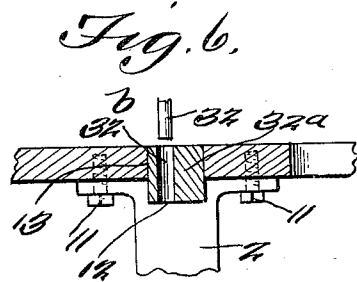


Fig. 6.

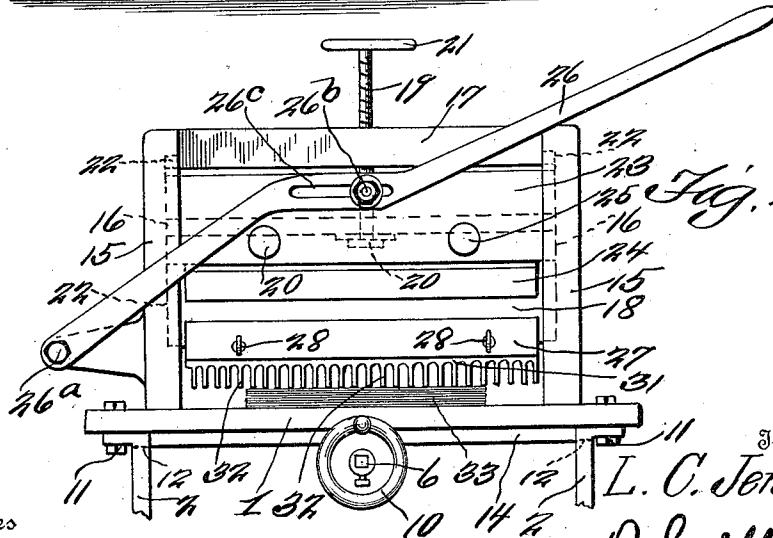


Fig. 7.

Witnesses

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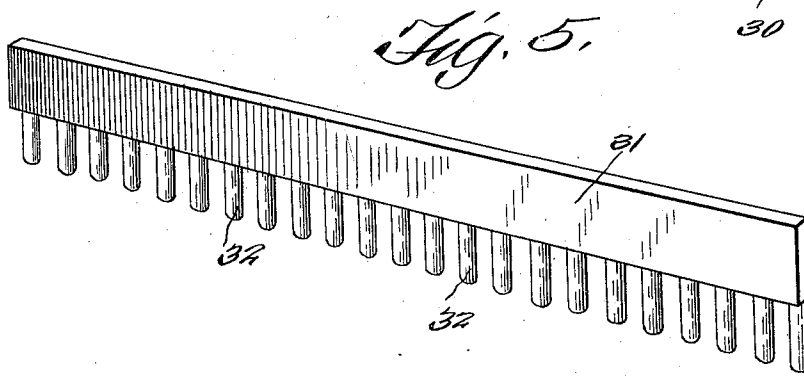
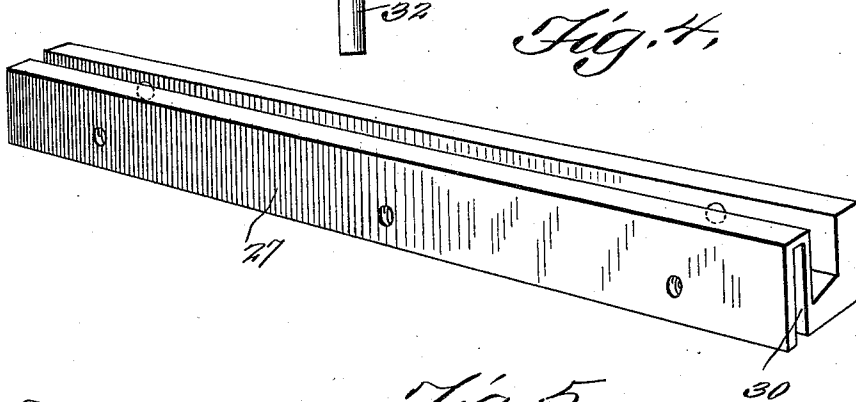
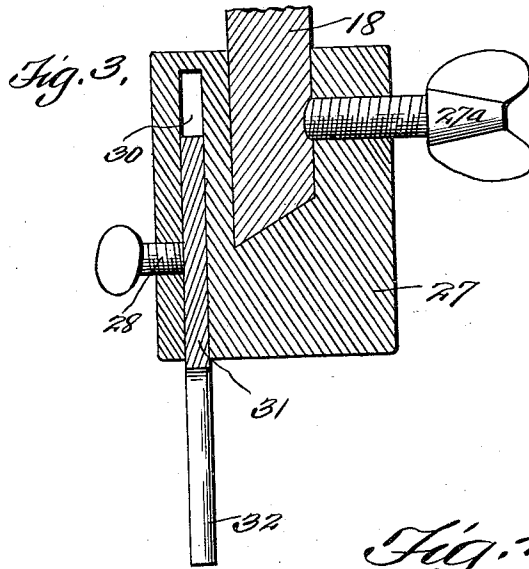
Attorneys

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2 SHEETS—SHEET 2.



Witnesses

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UNITED STATES PATENT OFFICE.

LARS CHRISTEN JENSEN, OF COWLEY, WYOMING.

PERFORATING DEVICE.

1,046,598.

Specification of Letters Patent.

Patented Dec. 10, 1912.

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To all whom it may concern:

Be it known that I, LARS C. JENSEN, a citizen of the United States, residing at Cowley, in the county of Bighorn and State of Wyoming, have invented a new and useful Perforating Device; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to a new and useful paper perforating apparatus, constructed on the principle of a paper cutting machine.

The principal object of the invention is to provide an apparatus of this nature, in which various essential and desirable features of construction are involved.

The principal feature of construction is the provision of a trough-shaped block adapted to be fastened to a vertical movable draw head, and provided with a plate held in a groove having perforating points for perforating the paper.

The invention comprises further features and combination of parts, as hereinafter set forth, shown in the drawings and claimed.

In the drawings:—Figure 1 is a vertical sectional view through the apparatus. Fig. 2 is a front elevation. Fig. 3 is an enlarged detail sectional view showing the trough-shaped elongated block fastened to the vertical movable draw head. Fig. 4 is a detail perspective view of the trough-shaped elongated block. Fig. 5 is a detail view of the perforating plate or blade. Fig. 6 is a detail view showing a different buffer block designated by the character 32^a.

Referring to the drawings 1 designates a bed plate, on which the paper is adapted to rest when being perforated. This bed plate 1 is provided with suitable legs 2 for supporting the same. A guide slot 3 is formed in the bed plate, to receive the tongue 4 of the slide 5, which slide is adapted to be moved longitudinally of the bed plate, by means of the screw shaft 6, which is swiveled at 7 in the bracket bearing 8, secured by the bolts 9 to the forward portion of the bed plate. This screw shaft is provided with a hand wheel 10, by which the screw shaft may be rotated. The upper portions of the legs 2 are secured by the bolts 11 to the bed plate, and are provided with recesses 12, which register with the opening 13 of the bed plate. Arranged in the opening and seated in the recesses is a buffer

block 14 constructed of any suitable material, such as cork, rubber or the like.

Projecting upwardly from each side of the bed plate are standards 15 having guide grooves 16. Connecting the upper end of the standards is a cross bar 17. Mounted to vertically move in the guide grooves 16 is a draw head 18, to which a screw rod 19 is swiveled at 20. This screw rod is threaded in the cross bar 17, and is provided with a hand wheel 21, whereby vertical movement may be imparted to the draw head.

Mounted in guide grooves 22 of the standards 15 is a member 23, having the usual cutting knife or blade 24 secured thereto by the bolts 25. The member 23 is operated by the lever 26, which is provided with a slot 26^c, which receives the bolt 26^b, thus pivoting the lever to the member 23, so as to move the same downwardly, when the lever 26 is moved upon its pivot 26^a.

An elongated trough-shaped block 27 is provided, which is secured to the draw head 18 by the thumb screws 28. This block 27 is provided with a groove 30 for the reception of the perforating plate or blade 31. This perforating blade or plate is constructed with perforating points 32, which as the draw head moves downwardly, perforate the sheets of paper 33. The perforating blade or plate is held in adjusted positions by the thumb screws 28.

Instead of the buffer block of cork or rubber, a buffer block 32^a of metal may be used having openings 32^b to receive the perforating points 32, in order that when the paper is perforated, the part which is cut out will be entirely removed.

From the foregoing it will be observed, there has been devised a simple and efficient and desirable machine for perforating sheets of paper, and one which has been found of a great benefit in small print shops, and to country printers.

The invention having been set forth, what is claimed as new and useful is:—

In a paper cutting machine having a draw head and provided with a buffer block embedded in the bed plate of the machine, an elongated block, rectangular in cross section, with parallel grooves entering it from opposite sides, one receiving the draw head, means extending through one side of the elongated block for clamping the block to the draw head, a replaceable and adjustable plate fitting in the other groove of the block

and provided with a plurality of perforating points adapted to perforate the paper and engage the buffer block, and means extending through the other side of the elongated block for clamping the plate adjustably in the groove.

In testimony whereof I have signed my

name to this specification in the presence of two subscribing witnesses.

LARS CHRISTEN JENSEN.

Witnesses:

N. C. SCHOW,
E. R. GWYN.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."
