

(No Model.)

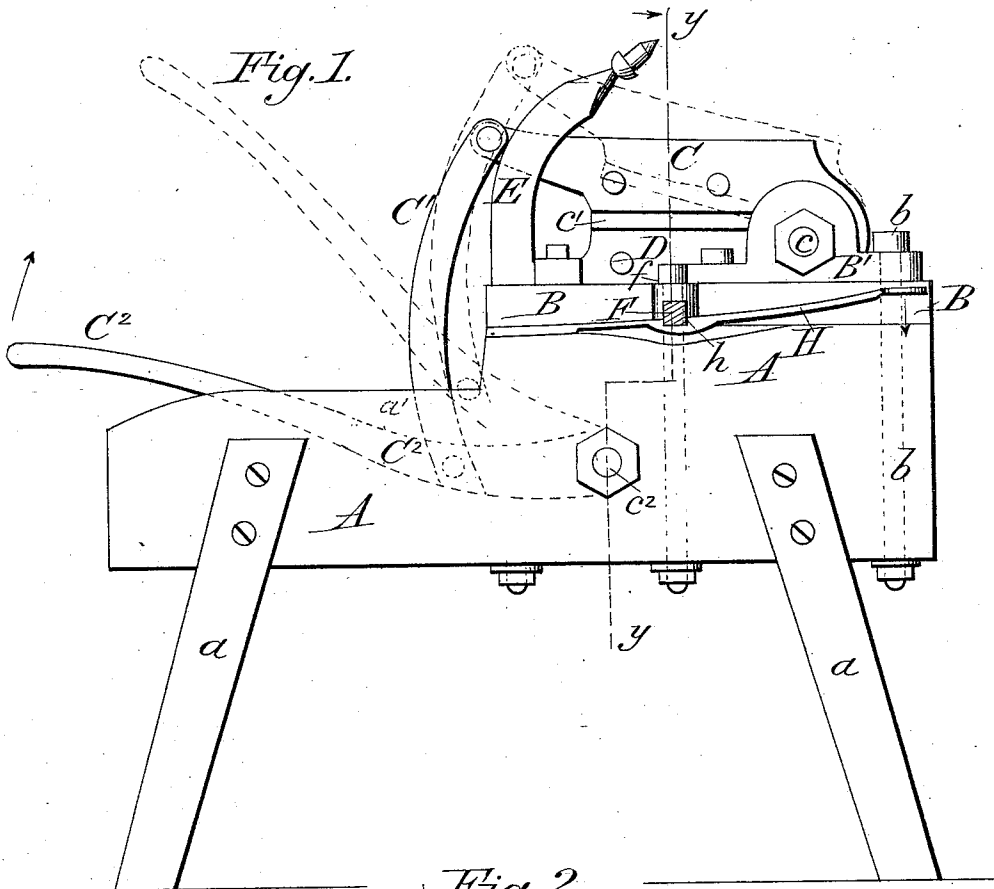
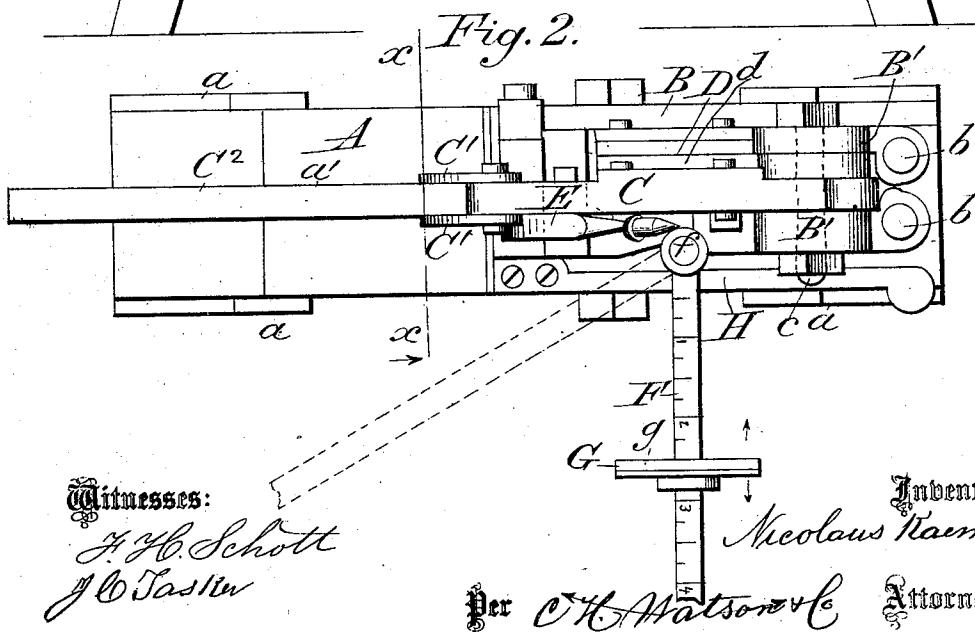
2 Sheets—Sheet 1.

N. KAEMPF.

MACHINE FOR SHEARING METAL.

No. 247,566.

Patented Sept. 27, 1881.



Witnesses:

H. H. Schott
J. C. Foster

Inventor

Nicolaus Kaempff

Per

C. H. Watson & Co

Attorneys.

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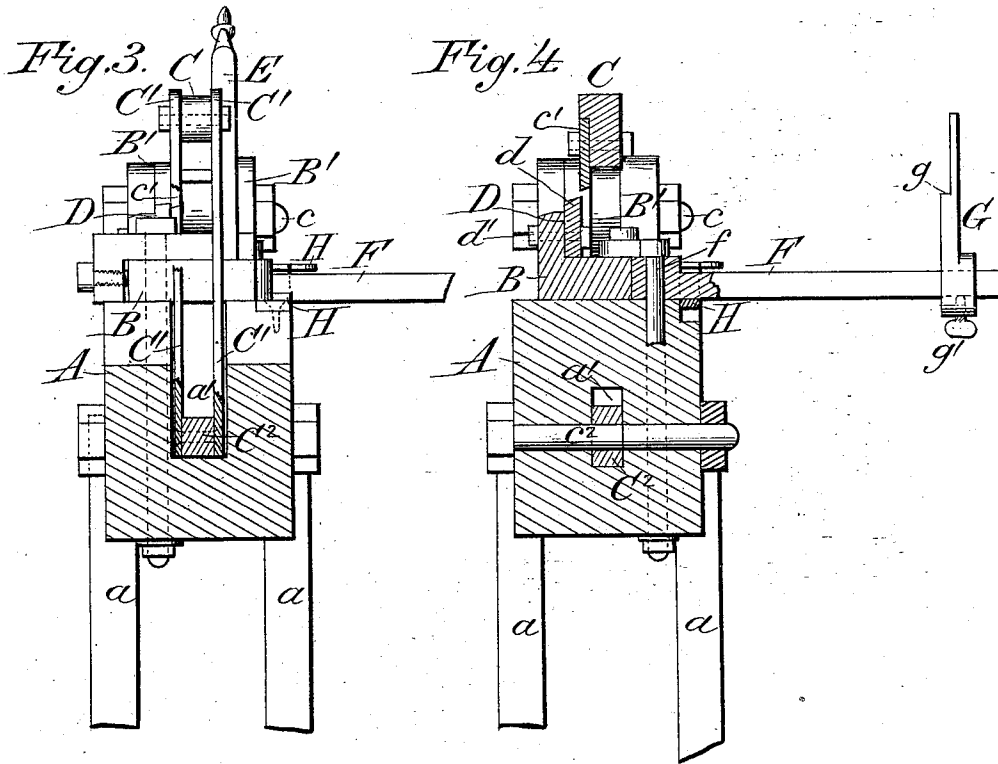
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N. KAE MPF.

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Inventor

Inventor
Nicolaus Raempf

Attorneys:

UNITED STATES PATENT OFFICE.

NICOLAUS KAEMPF, OF BONDUEL, WISCONSIN.

MACHINE FOR SHEARING METAL.

SPECIFICATION forming part of Letters Patent No. 247,566, dated September 27, 1881.

Application filed June 1, 1881. (No model.)

To all whom it may concern:

Be it known that I, NICOLAUS KAEMPF, of Bonduel, in the county of Shawano and State of Wisconsin, have invented certain new and useful Improvements in Machines for Shearing Metal; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

My invention relates to a metal-cutting machine; and the novelty consists in the construction and arrangement of parts, as will be more fully hereinafter set forth, and specifically pointed out in the claim.

The object of the invention is to provide a machine compact in form, simple in construction, and efficient in service, having such arrangement and combinations of parts as will afford a maximum of cutting-power in a minimum of space; and to these ends the cutting-power is transmitted through a series of fulcrumed levers, each of which serves to multiply the force, as will be explained.

In the accompanying drawings, which form a part of this specification, and which fully illustrate my invention, Figure 1 is a side elevation; Fig. 2, a top-plan view; Fig. 3, a transverse section through the lines *xx* in Fig. 2, and Fig. 4 a similar section through the lines *yy* in Fig. 1.

Referring to the drawings, A represents a body, supported on legs *a*, and having a longitudinal slot or recess, *a'*. Firmly secured to this body is a base-casting of metal, B, the securing means being seen at *b*.

Upon the upper surface of the casting B are secured journal-frames B', which furnish bearings for a shaft, *c*, upon which is hung the knife-lever C, carrying knife *c'*.

To the free end of the knife-lever C is loosely pivoted a link, C', of curved contour, to allow the oscillatory movement of said lever, which link is similarly pivoted at its other extremity to a lever, C², fulcrumed at *c²* in the body A.

The lever C² operates loosely in the longitudinal recess *a'*, and serves to raise or lower the knife at will, and when in the act of cutting the lever system shown greatly multiplies the power.

D represents the stationary knife-frame, upon which is removably secured the knife *d*, having a slightly-beveled upper surface. Both knives *c'* and *d* are removable, and have about the same form upon their cutting-surfaces.

A curved arm, E, extends upward from the base B, and is adjustably secured thereto. It bears against the lever C, and by its transverse adjustment allows the knives to be held closely together at all times.

It some instances it is necessary to cut several hundred pieces of the same length, and in others varying lengths are desired. I have sought to enable my device to accomplish this work by a peculiar and convenient feature. I pivot at *f* a measuring-rod, F, upon which is hung an adjusting-block, G, adapted to be held in position at any desired point upon the rod, according to the inch-marks or fractions thereof, by a set-screw, *g'*, and it has a ledge, *g*, upon which the end of the bar being operated upon rests. This measuring-arm is readily put out of the way when not in use by depressing the spring H, having the slot *h*, in which the arm rests, and turning the arm to one side, as is obvious.

The operation of the device is apparent.

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

The combination, with the body A, cutting devices C D, and operating mechanism, of the measuring-arm F, having adjustable block G, provided with ledge *g* and thumb-screw *g'*, and the holding spring H, having slot *h*, as and for the purpose shown and described.

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

NICOLAUS KAEMPF.

Witnesses:

ADOLPH KANN,
I. H. H. BIERBAUM.