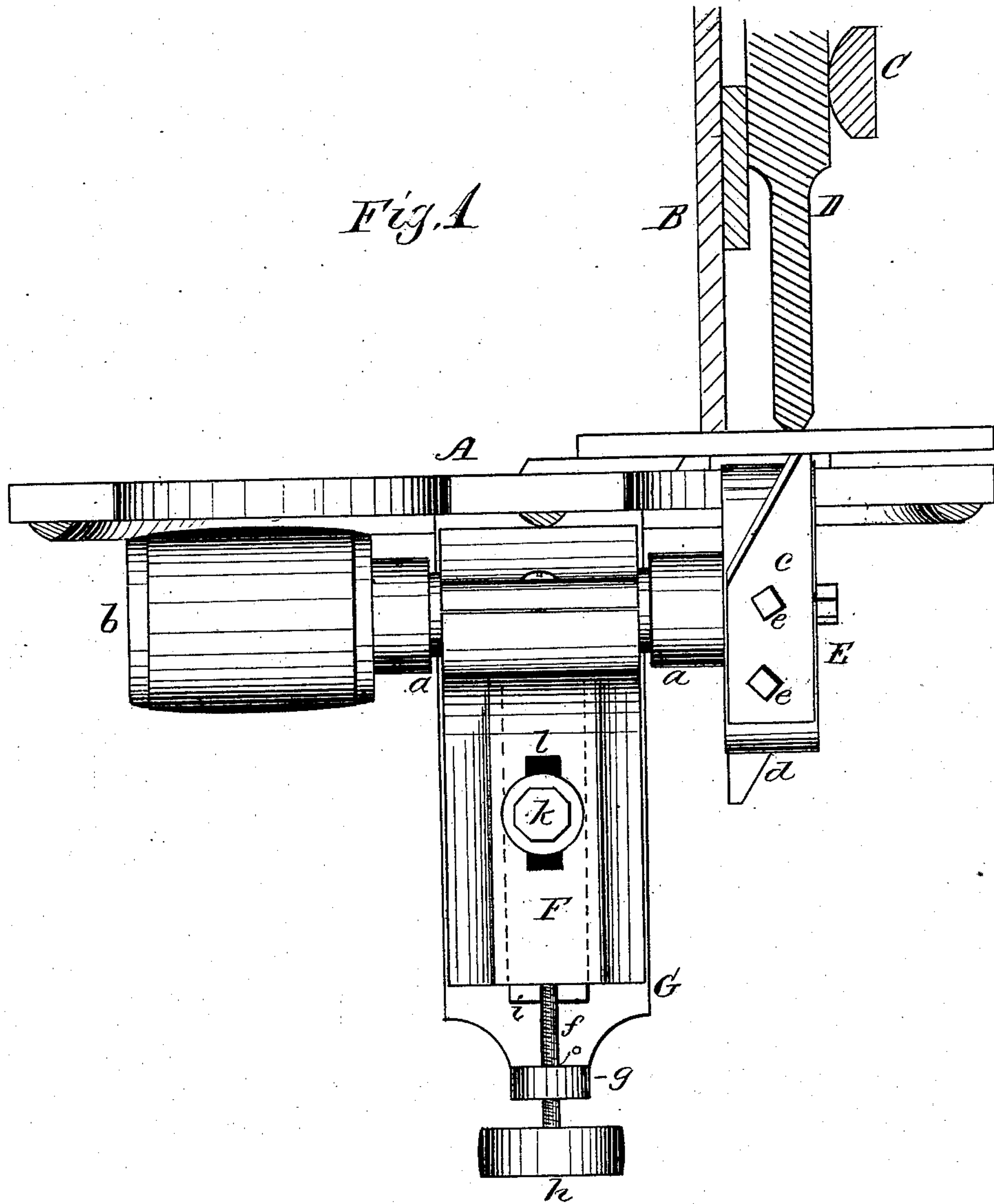


J. W. GROFF.
Paneling-Machine.

No. 217,005.

Patented July 1, 1879.



WITNESSES.
Chas. Bulfinch
John J. Darby

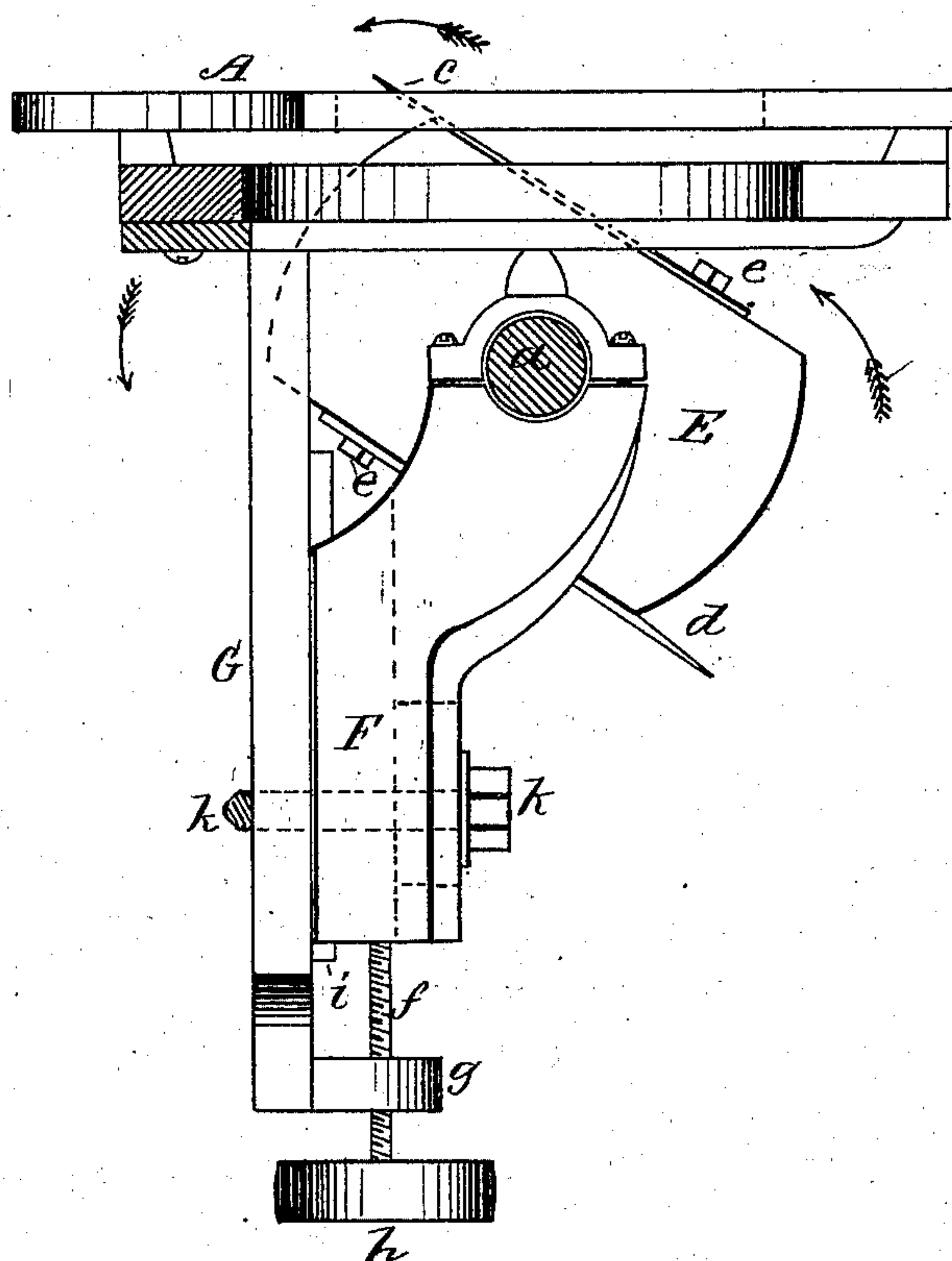
INVENTOR,
John W. Groff,
per Chas. H. Fowler,
Attorney.

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Fig. 2.



WITNESSES,

Chas. H. Burlingame
John. J. Darby

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John W. Groff.
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Attorney.

UNITED STATES PATENT OFFICE.

JOHN W. GROFF, OF ALBION, MICHIGAN.

IMPROVEMENT IN PANELING-MACHINES.

Specification forming part of Letters Patent No. **217,005**, dated July 1, 1879; application filed June 7, 1878.

To all whom it may concern:

Be it known that I, JOHN W. GROFF, of Albion, in the county of Calhoun and State of Michigan, have invented a new and valuable Improvement in Paneling-Machines; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a front elevation of my invention; and Fig. 2 is a side elevation of the same, partly in section.

This invention has relation to paneling-machines; and the object thereof is to provide an attachment to this class of machines by which the panel can be readily cornered without the necessity of removing the panel from the machine and cornering it with a jack-plane or other similar tool, which has generally been the custom.

The invention therefore consists in the general construction and arrangement of the several parts constituting the device, as will be hereinafter described, and subsequently pointed out in the claim.

In the accompanying drawings, A represents the bed-plate or top of the machine; B, the rest or support, and C pressure-bar for holding the panel in position, which is represented at D, these several parts being of the ordinary construction, and therefore further description of them is deemed unnecessary.

The attachment which embodies my invention is secured underneath the bed-plate A, and consists, in part, of a horizontal shaft, *a*, carrying a pulley, *b*, upon one of its ends, over which is secured or passes a belt connecting with a suitable driving-power, and upon the opposite end is rigidly connected a cutter-head, E, carrying upon its opposite sides knives *c d*, secured to said head by bolts *e*. These knives are arranged with their inclined cutting-edges in opposite directions, so that during the rotation of the head E, and as

the ends of the knives pass up through the bed-plate, both sides of the panel will be cornered as the cutting-edges come in contact therewith.

The shaft *a* has its bearing in a standard, F, which is made vertically adjustable by an adjusting-screw, *f*, having a button at its upper end, which engages in a recess in the inner face of the standard F. The screw *f* passes through a screw-threaded perforation in a guide-plate, *g*, and is operated by a hand-wheel, *h*, at its lower end. The standard is guided in its vertical adjustment by ways *i* upon a support or rear plate, G.

The standard F is held in position, after being properly adjusted, by a set-screw, *k*, passing through an elongated slot, *l*, in said standard and through the support or rear plate, G.

The cutter-head E runs in a reverse direction of the main cutter-head of the paneling-machine, which prevents slivering the panel and draws very little in its cut. The ready adjustability of the cutter-head increases or diminishes the cut, as required, which is considered very essential in the successful operation of cornering panels.

Having now fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

In a panel-cornering attachment, the rear plate, G, attached to the bed-plate A, and provided with the ways *i* and perforated guide-plate *g*, in combination with the standard F, recessed on its inner face, and having at its upper end the journal-bearing for the shaft *a*, screw *f*, having a button at its upper end, and adjustable cutter-head E, having knives *c d*, arranged as described, substantially as and for the purpose set forth.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

JOHN W. GROFF.

Witnesses:

ANTHONY B. HUGHES,
ALONZO W. SILSBEE.