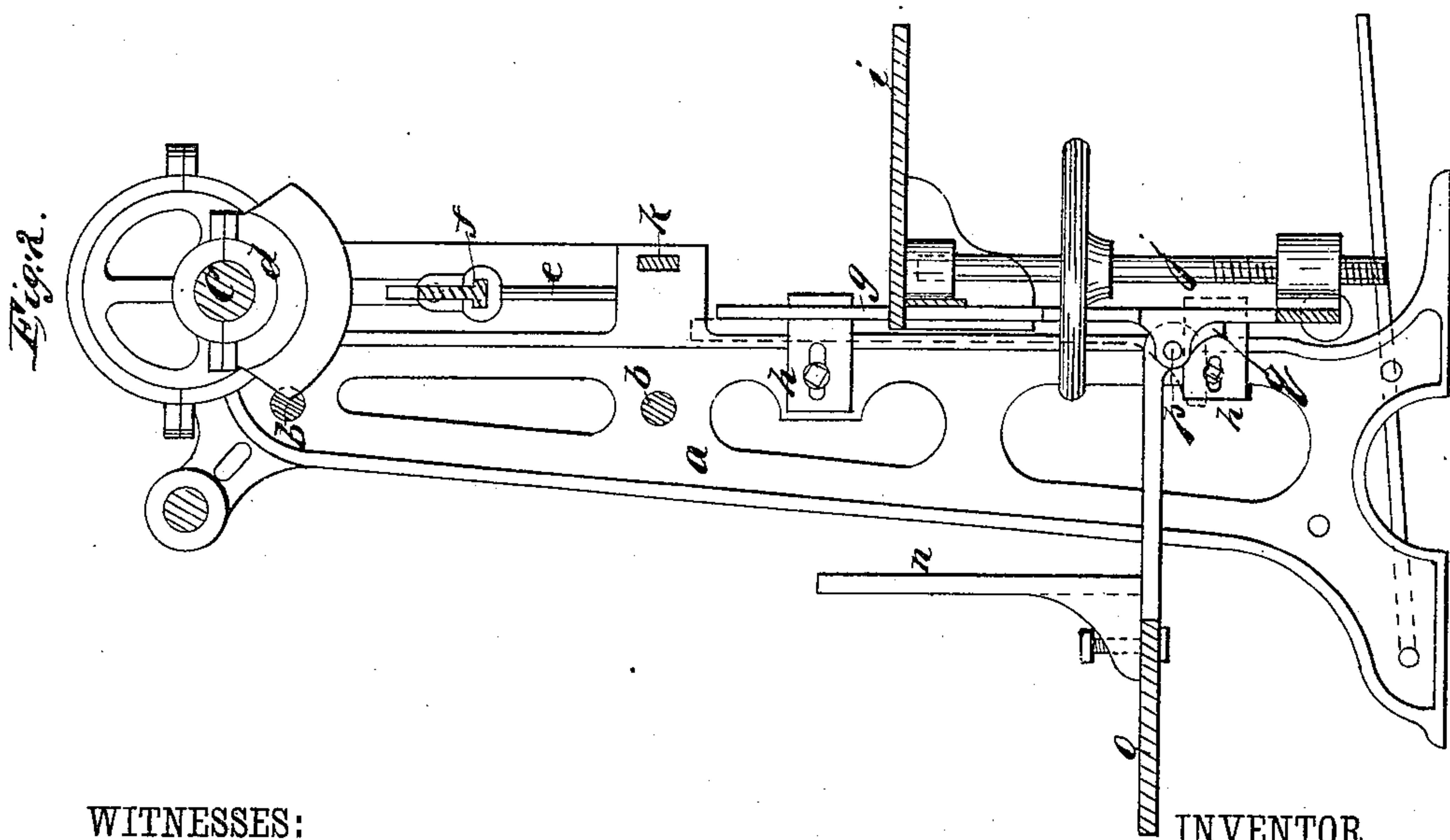
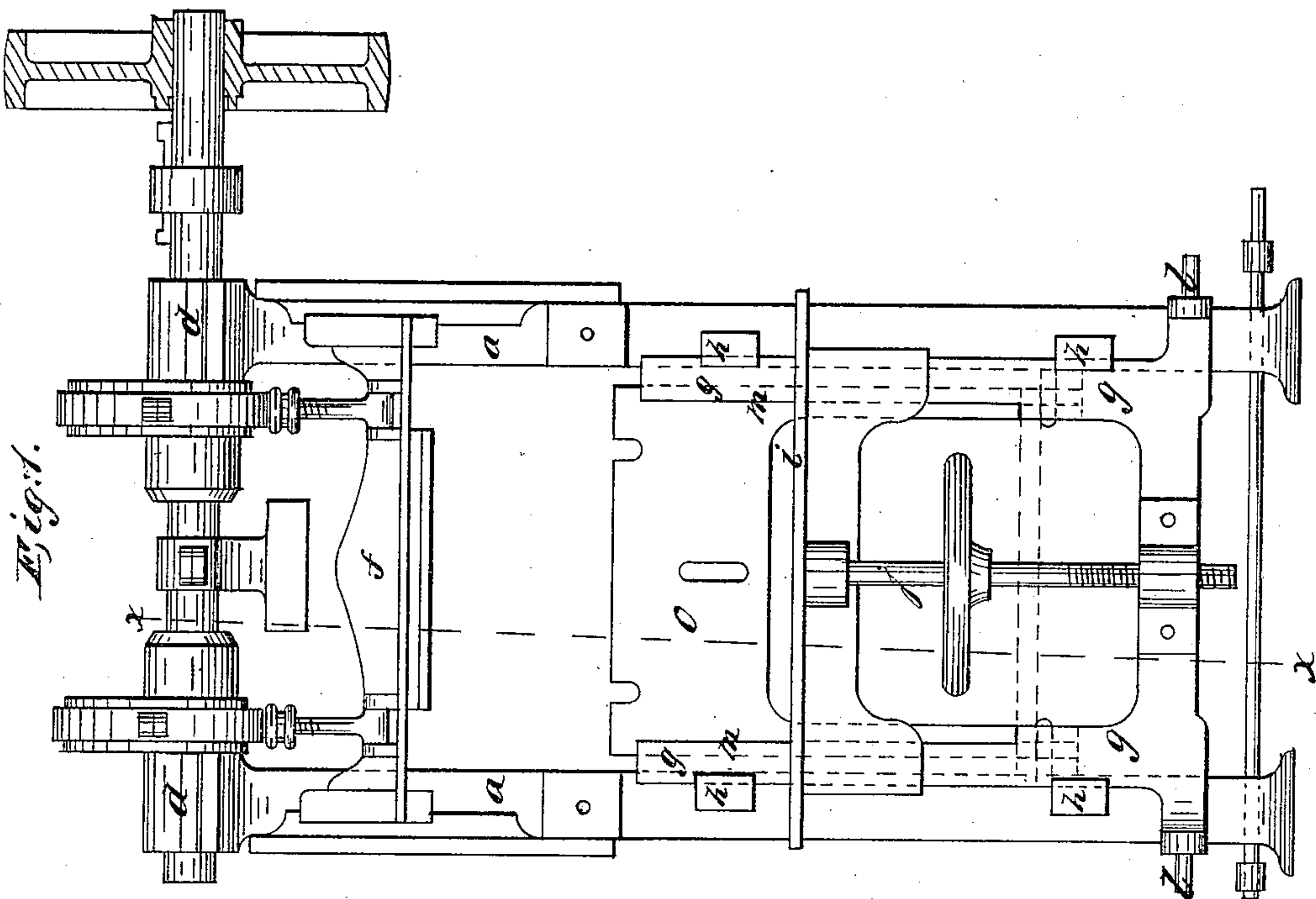


(No Model.)

F. MYERS.
BOX NAILING MACHINE.

No. 262,304.

Patented Aug. 8, 1882.



WITNESSES:

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FREDERICK MYERS, OF NEW YORK, N. Y.

BOX-NAILING MACHINE.

SPECIFICATION forming part of Letters Patent No. 262,304, dated August 8, 1882.

Application filed June 26, 1882. (No model.) Patented in England September 1, 1880, No. 3,555; in France March 1, 1881, No. 141,455; in Belgium March 22, 1881, No. 54,181; in Germany March 29, 1881, No. 17,665; in Austria June 4, 1881, and in Spain August 12, 1881, No. 664.

To all whom it may concern:

Be it known that I, FREDERICK MYERS, of the city, county, and State of New York, have invented new and useful Improvements in Machines for Nailing Boxes, of which the following is a specification.

This invention consists of attachments to box-nailing machines to facilitate the nailing of partitions in boxes, as hereinafter fully described, reference being made to the accompanying drawings, in which—

Figure 1 is a front elevation of the frame and some of the working parts of a machine for nailing boxes, with the attachments which I apply for nailing partitions in the boxes; and Fig. 2 is a sectional elevation, Fig. 1 on the line *xx*.

The frame of the machine consists essentially of the two uprights *a*, connected by rods or bars *b*, and it carries the driving-shaft *c*, in suitable bearings, *d*, at the top, for working the nail-drivers *e*, Fig. 2, by the cross-head *f*. Said frame also carries the back plate, *g*, in suitable guides, *h*, on which back plate the work-holding table *i* is mounted, so as to be shifted thereon by screw *j* to vary the height of the said table with respect to the nail-boxes, (not shown,) which are supported on the bar *k*, and under which the work is pressed while the nails are driven by the back plate, *g*, which is raised in its guides *h* by means of rods (not shown) connected to the back plate by the studs *l*, and worked by the driving-shaft, with which they are connected by levers and cams, which are not shown, because they form no part of the invention claimed herein.

As commonly arranged in box-nailing machines of the kind herein shown, the back plate, *g*, is a solid continuous plate extending from side to side of the frame *a* above the table *i*, to form a back stop against which the end boards of the boxes to be nailed are gaged under the nail-drivers for properly receiving the nails. I now propose to make an opening through the back plate from *m* to *m*, in order that when it is desired to nail partitions in boxes the parts of the box being nailed—that is, the two sides between which the partitions are to be nailed—may be shoved along through the open

back plate until the partition to be nailed will be under the nail-drivers the same as the end pieces are when resting against the solid back plate. To gage the boxes when thus placed, so that the partition will rest at the right point for receiving the nails, I provide a back stop, *n*, to be set up on any suitable support, so that when the end of the box touches it the partition will be in the right place, the said stop to be adjustable toward and from the table for setting it to suit the requirements for boxes in which the partitions are to be placed more or less distant from the ends.

In order to make the open back plate, *g*, thus contrived, serve also for the nailing of ends and sides the same as the ordinary solid back plate, and also for the support of the back stop, *n*, I attach a gate, *o*, to back plate, *g*, by hinges *p*, so as to swing up against plate *g*, as shown by solid lines in Fig. 1 and by dotted lines, Fig. 2, and close the opening through *g*, said gate having brackets *q*, which bear against plate *g* when it is let down in the horizontal position represented in Fig. 2, and support it in that position.

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

1. The combination, in a box-nailing machine, of a work-holding table, an open back plate, and a back stop in rear of said back plate, arranged for nailing partitions in boxes, as described.

2. The combination, in a box-nailing machine, of a work-holding table, an open back plate, a back stop in rear of said back plate, arranged for nailing partitions in the boxes, and a gate for supporting said back stop, that closes up against the open back plate when said back stop is not used, substantially as described.

In witness whereof I have hereunto signed my name in the presence of two subscribing witnesses.

FREDERICK MYERS.

Witnesses:

JOHN DEAN,

G. W. WESTLEY,

Both of 17 Gracechurch street, London.