

J. B. Brown,

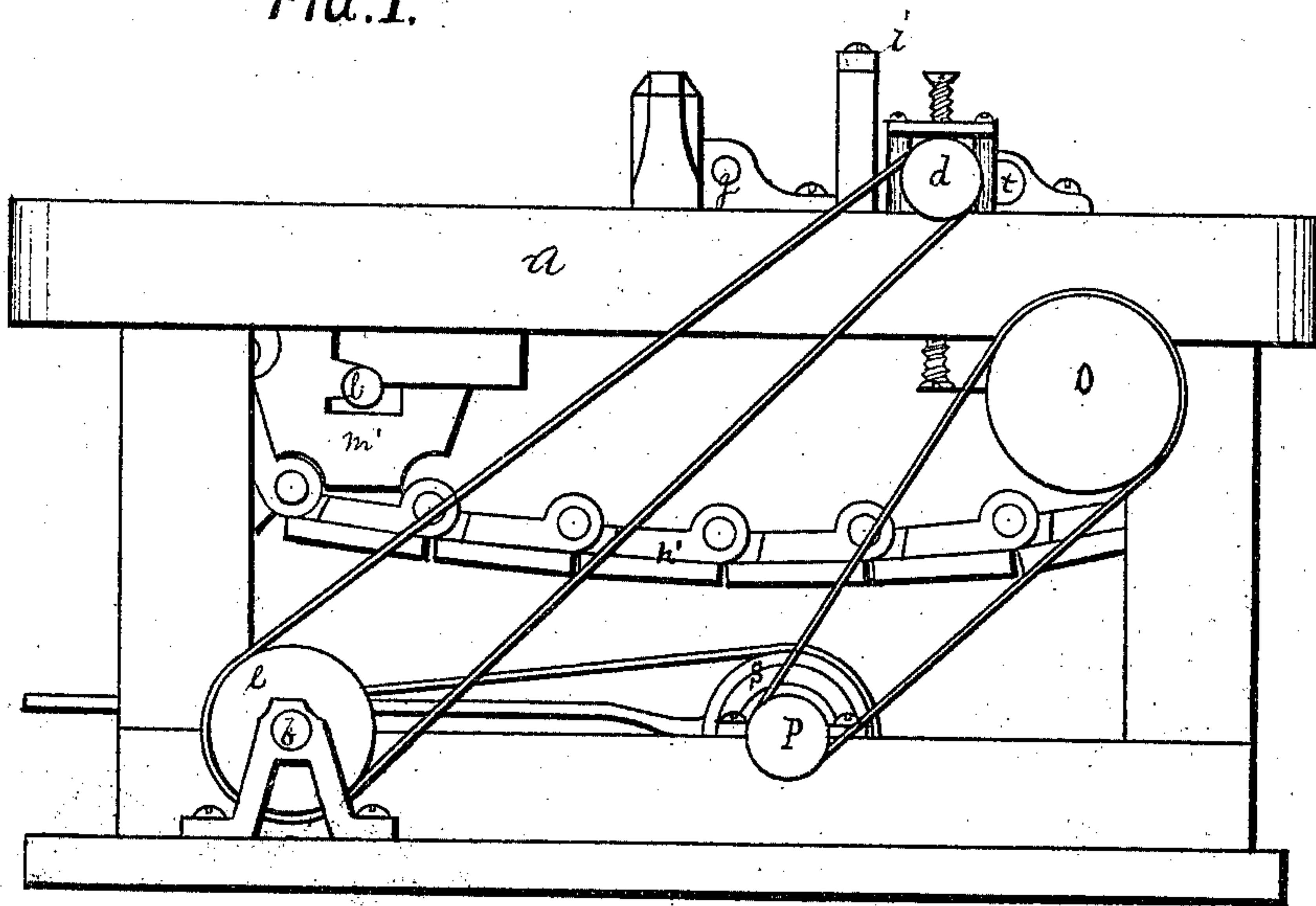
2 Sheets. Sheet 1.

Planing Machine.

No. 97,476.

Patented Dec. 7. 1869.

FIG. 1.



WITNESSES.

N. F. Libby  
Geo. E. Remy.

INVENTOR.

Jerome B. Brown

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2. Sheets. Sheet, 2.

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FIG. 2.

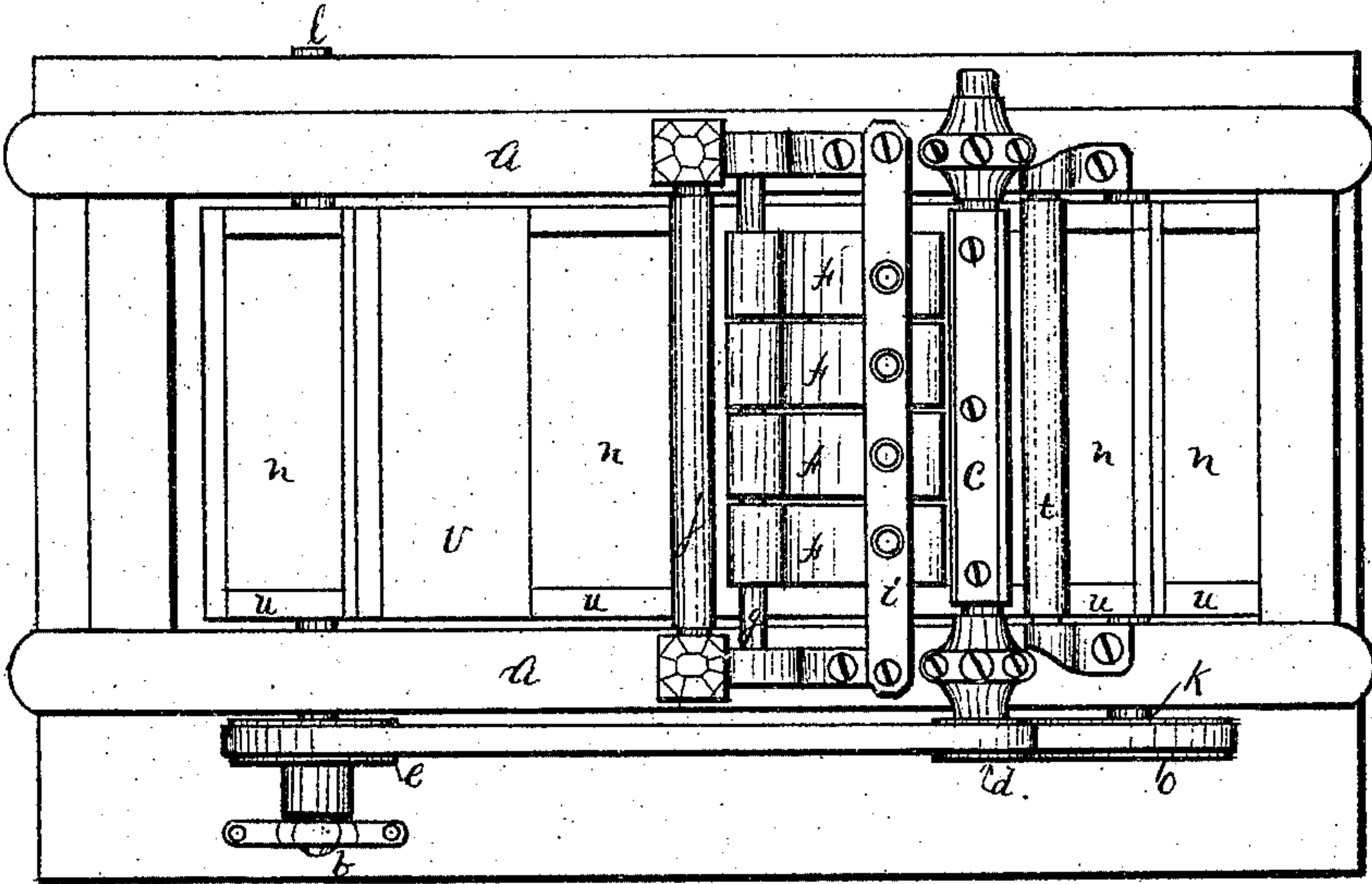
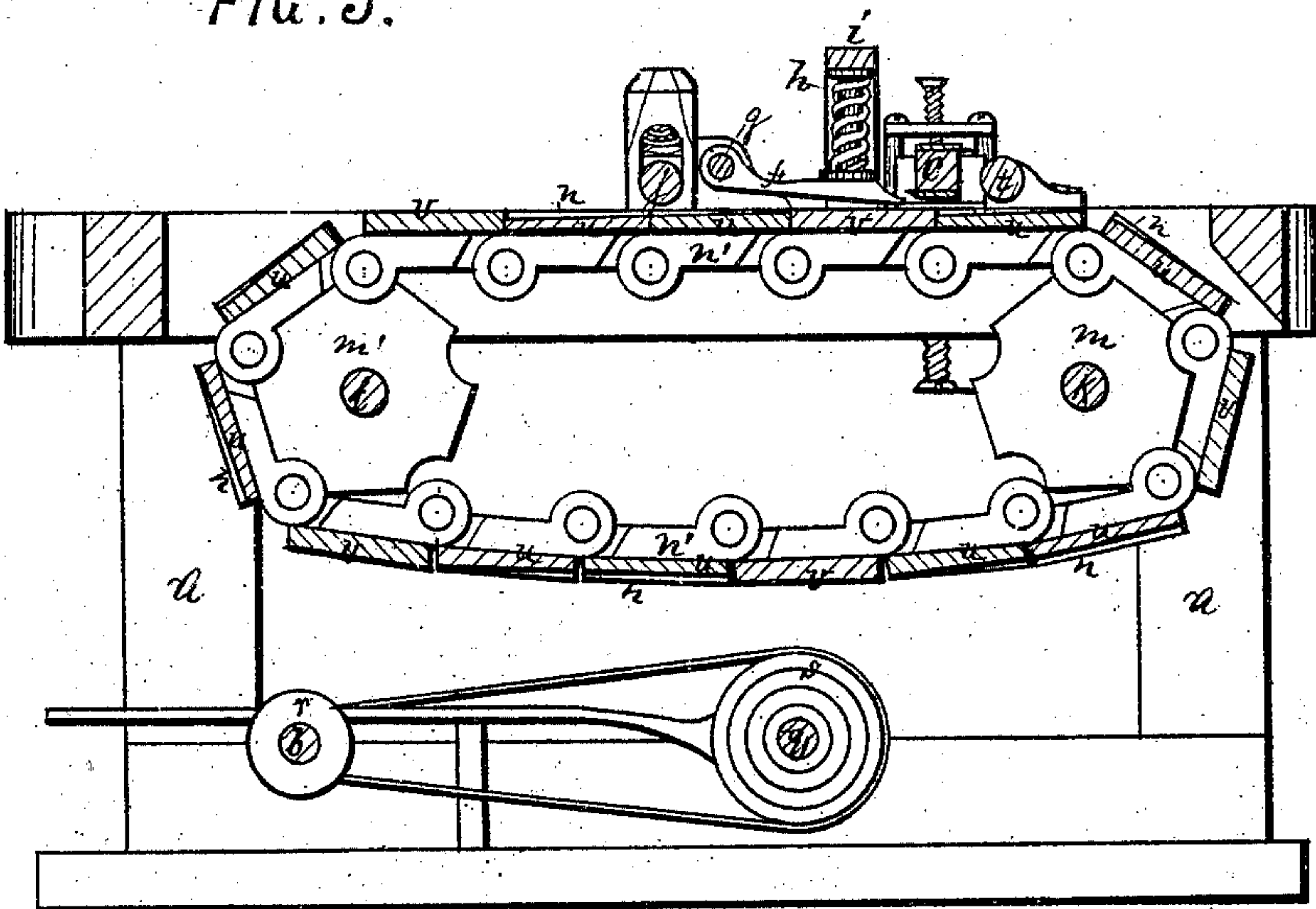


FIG. 3.



WITNESSES.

*W. F. Libby*  
*Geo. C. Perry*

INVENTOR

*Jerome B. Brown*



# United States Patent Office.

JEROME B. BROWN, OF LOWELL, MASSACHUSETTS, ASSIGNOR TO HIMSELF  
AND NELSON F. LIBBY, OF SAME PLACE.

Letters Patent No. 97,476, dated December 7, 1869.

## IMPROVEMENT IN PLANING-MACHINE.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, JEROME B. BROWN, of Lowell, in the county of Middlesex, and State of Massachusetts, have invented new and useful Improvements in Shingle-Planing Machines; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

The nature of my invention consists in the arrangement of the elastic pressers in combination with the endless platform with sunk beds, as hereinafter described.

The object of my invention is to reduce, at one operation, a number of shingles of different thicknesses to a uniform thickness, at the same time giving them a planed, even surface on one side, and the required bevel.

To enable others skilled in the art to make and use my invention, I will proceed to describe its construction and operation.

Figure 1 represents a side elevation of a machine, embodying my invention.

Figure 2 represents a plan of the same.

Figure 3 represents a longitudinal section of the same.

Similar letters in the different figures indicate corresponding parts.

In the construction of my improved machine—

*a* represents the frame, of the required strength to resist the vibrations of the operating parts.

*b* is the driving-shaft, from which motion is communicated to the working parts.

*c* is the rotary cylinder, which is provided with cutters in the usual manner. On one end of said shaft is secured the pulley *d*, which connects, by means of a belt, with the pulley *e* secured to the driving-shaft *b*.

This rotary cylinder *c* is provided, near each end, with stands which are adjustable, whereby it may be adjusted so that the cutters will cut any depth of chip required.

*f f f f* are elastic pressers, which are hung and operate on the shaft *g*, separately, the feet of which are provided with spindles, around which pass suitable springs, *h h*, said spindles operating in and through the frame *i*, the top part of the springs bearing against washers, which come in contact with the bottom part of the frame *i*.

Located in the rear of this frame *i* is the pressure feed-roll *j*.

*k* and *l* are shafts, to which are secured the chain-pulleys *m* and *m'*, around which operates the endless platform *n'*; said platform being formed of logs, which are provided with sunk beds, *n*.

Secured to the shaft *k* is the pulley *o*, which connects with the pulley *p* by means of a belt; said pulley *p* being secured to the countershaft *q*, motion being communicated to the same from the driving-shaft *b*, by means of the cone-pulley *r* and *s*.

*t* is a feed-roll, located in front of the rotary cylinder *c*, its object being to feed the finished shingles from the cutters.

The shingles to be planed are placed on the endless platform *n'*, in the sunk beds *n n* formed in the logs *u u*; a whole log, *v*, being placed between each of said beds *n n*, the thin ends of which pointing toward the rotary cylinder *c*, the thick part resting against the edge of the whole log *v*, carrying them toward the pressure feed-roll *j*, which, with the assistance of the platform *n'*, feeds or brings the same in under the elastic pressers *f f f f*, each presser having a separate shingle to hold in position while being operated upon by the rotary cylinder *c*, with cutters. After being operated upon, by aid of the feed-roll *t*, they are fed from the same, with one side finished, and at the same time all of the same thickness.

While one row of shingles is being operated upon, another row is being prepared by a similar process, as heretofore described.

By this operation, it will be seen that shingles of different thicknesses may be operated upon with the same effect as if they were all of the same thickness, as the elastic pressers *f f f f* will adapt themselves separately to each shingle operated upon, and, when finished, be all of the same thickness.

Another important feature in connection with the elastic pressers *f f f f*, is the sunk beds *n n*, they being so constructed and formed that when the shingles are placed on the same, their top surface will be parallel with the top of the frame *a*, and when operated upon by the cutters, they being adjustable, the taper of the shingles is preserved and their surfaces are finished off true and smooth with despatch.

I am aware that the elastic pressers, and other parts of the machine are in use. I, therefore, lay no claim to them when used separately; but

What I do claim as my invention, and desire to secure by Letters Patent, is—

The arrangement of the elastic pressers *f f f f*, in combination with the endless platform *n'*, with sunk beds *n n*, all when arranged and operating as described.

JEROME B. BROWN.

Witnesses:

N. F. LIBBY,  
GEO. E. PEVEY.