(No Model.)

E. G. WILCOX.

STOVE PIPE GROOVING MACHINE.

No. 376,173. Patented Jan. 10, 1888.

Fig. 1.

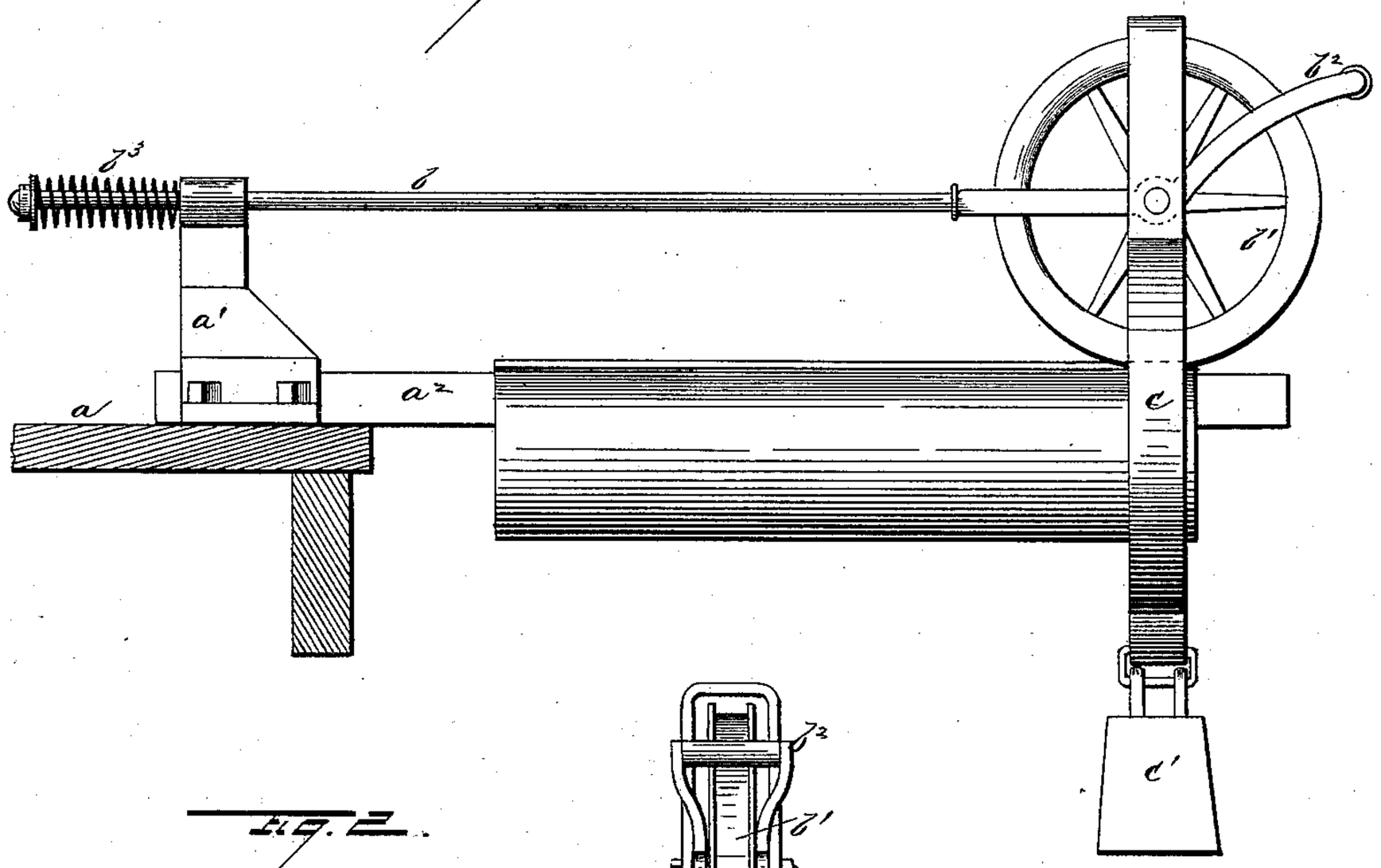
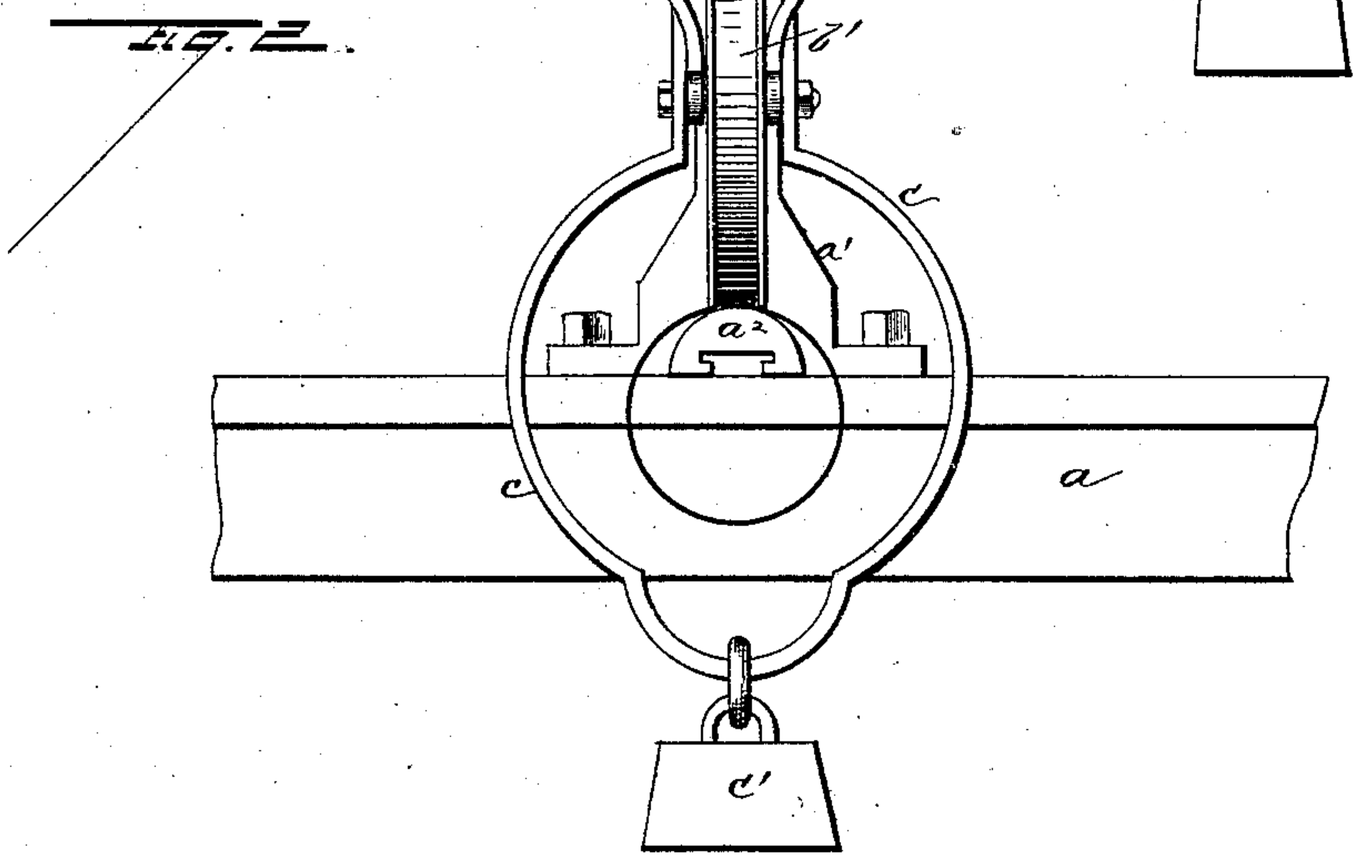


Fig. 2.



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UNITED STATES PATENT OFFICE.

EDWARD G. WILCOX, OF CHICAGO, ILLINOIS.

STOVE-PIPE-GROOVING MACHINE.

SPECIFICATION forming part of Letters Patent No. 376,173, dated January 10, 1888.

Application filed June 9, 1887. Serial No. 240,764. (No model.)

To all whom it may concern:

Be it known that I, EDWARD G. WILCOX, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Stove-Pipe-Grooving Machines, of which the following is a specification, to wit:

This invention relates to an improvement in stove-pipe-grooving machines; and it consists in certain peculiarities of the construction and arrangement of the same, substantially as will be hereinafter more fully set forth and claimed.

In order to enable others skilled in the art to which my invention pertains to make and use the same, I will now proceed to describe its construction and operation, referring to the accompanying drawings, in which—

Figure 1 is a side elevation, and Fig. 2 an end elevation, of my device.

a represents a work-bench, to which is secured a casting, *a'*, provided with a mandrel, a^2, projecting therefrom, such as is commonly used by workmen for the purpose of forming stove-pipe. The upper end of the casting *a'* forms a guide, in which slides a horizontal rod or bar, *b*, having upon its forward end a fork, in which is journaled the grooved wheel *b'*, of suitable size for the purpose in view. The fork is extended beyond the wheel, and there forms a handle, b^2, by which the wheel is moved back and forth over the mandrel. Upon the rear end of the sliding rod *b*, I place a spring, b^3, as in Fig. 1, which cushions the forward stroke of the rod and aids in starting it back again. A yoke, *c*, is hung from the wheel *b'*, and, passing around the mandrel, is provided with a weight, *c'*, as shown.

In operation, a length of stove-pipe which has previously been joined together along one side, in the usual manner, is placed upon the mandrel with the seam uppermost, and the grooved wheel is then drawn over it and pushed back again, the weight being sufficient to press the joint down to proper shape, while the flanges of the groove in the roller at the same time prevent any spreading of the material till it is complete and aid in pressing it into shape. At the forward end of the stroke the momentum of the weighted wheel is checked and started easily back by the spring, as will be evident at once. Any size of pipe is readily operated upon, and the machine is simple and not liable to get out of order.

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

1. In a machine for grooving stove-pipe, the combination, with a mandrel, of a weighted grooving-wheel running upon said mandrel and provided with a guide-arm sliding in the heel of the machine, substantially as and for the purpose set forth.

2. In a stove-pipe-grooving machine, the combination, with the heel frame or casting and its projecting mandrel, of a rod sliding through the heel-casting and provided with a spring upon its rear end and a grooved wheel on its forward end, and a yoke and weight suspended from said wheel, substantially as and for the purpose set forth.

In testimony whereof I affix my signature in presence of two witnesses.

EDWARD G. WILCOX.

Witnesses:
W. C. MCARTHUR,
W. S. MCARTHUR.