

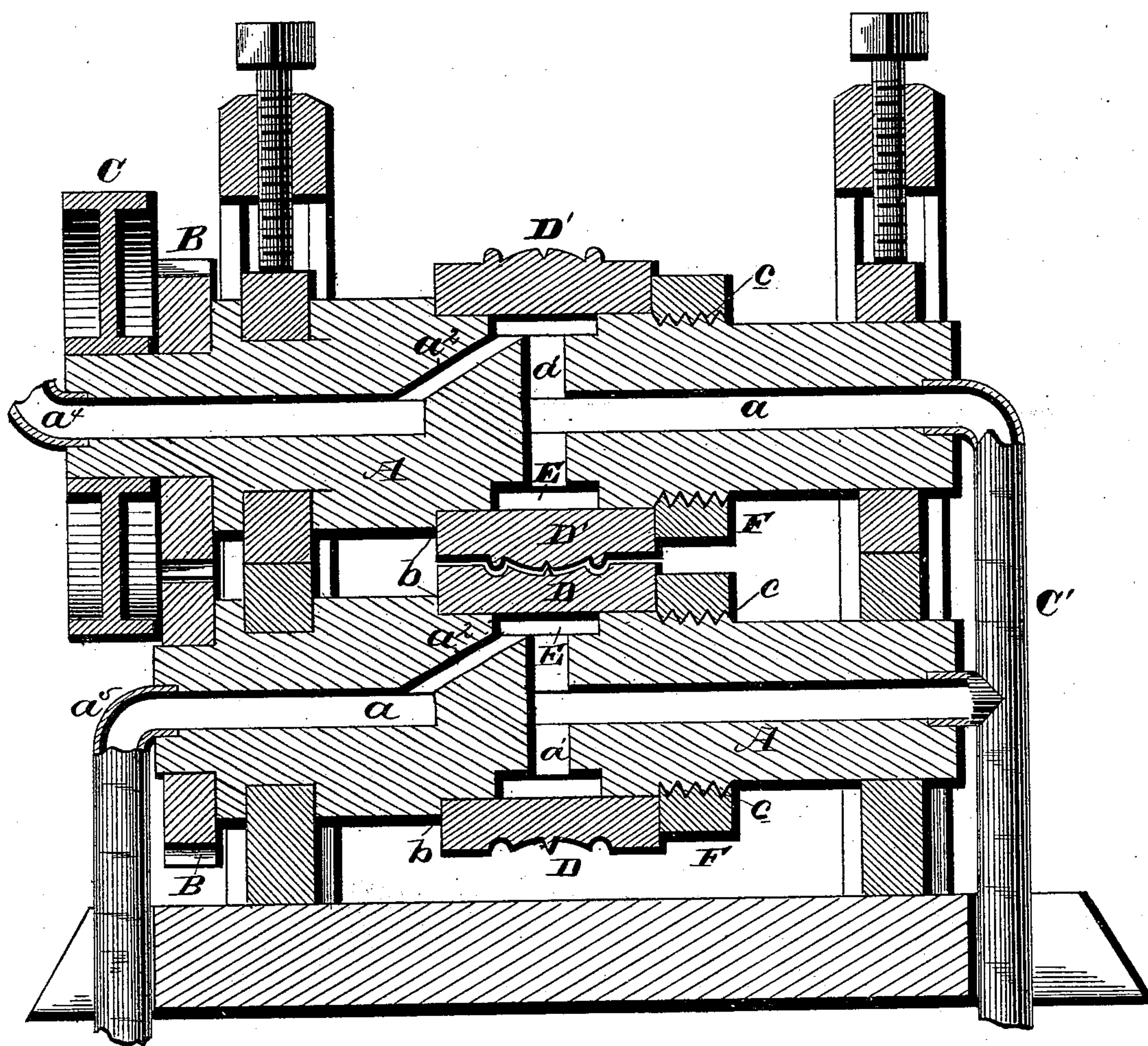
(No Model.)

J. S. LYNCH & M. A. HEATH.

MACHINE FOR PRESSING GIMP.

No. 282,544.

Patented Aug. 7, 1883.



WITNESSES

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MACHINE FOR PRESSING GIMP.

SPECIFICATION forming part of Letters Patent No. 282,544, dated August 7, 1883.

Application filed July 8, 1882. (No model.)

To all whom it may concern:

Be it known that we, JOHN SCOTT LYNCH and MARK ANTONY HEATH, of Providence, in the county of Providence and State of Rhode Island, have invented certain new and useful Improvements in Machines for Pressing Gimp; and we do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use the same.

Our invention relates to an improvement in machines for pressing gimp, the object being to provide means for embossing gimp for ornamenting or finishing furniture, and forming tack or nail holes equidistant apart in the gimp.

The invention consists in the construction and combinations of parts hereinafter fully described, and pointed out in the claims.

The accompanying drawing represents our invention in vertical section.

A represents two cylindrical rolls, mounted in any suitable frame, and journaled in suitable adjustable bearing, the said rolls being provided with the gear-wheels B, which cause them to move simultaneously when operated by the drive-pulley C, which latter is secured to one end of either roll. These rolls A are provided with non-intersecting axial bores a and with passages a' and a'' , respectively, leading from the inner ends of the said bores into annular recesses E, formed in the peripheries of the rolls, and closed by the removable dies D D', which are heated by the steam or other heating agent deflected through the said recesses E by the bores and passages described. Under the arrangement shown in the drawing steam is admitted through the pipe C' into the bores a , passing thence into the recesses E through the passages a' , and from the said recesses to the opposite bores through the passage a'' , and thence to the exhaust-pipes a^4 and a^5 . The pipes C', a^4 , and a^5 are connected to the bore a by suitable pipe-connections, which latter are either rigidly connected to the pipes C', a^4 , and a^5 and loosely connected by steam-joint to the rolls A, so as to prevent the escape of steam when the rolls are revolved, or the pipe-connection between the bore a and the supply and exhaust pipes can be rigidly secured to the rolls and loosely connected to the said supply and exhaust pipes by steam-

joint, so as to enable the said pipe-connections to revolve with the rolls. These rolls A are provided with the shoulders b , against which the dies D and D' bear, while the portions of the rolls A beyond the dies D D' are smaller than said dies, so as to enable the latter to be removed, when desired, for the purpose of placing on larger or smaller dies, or dies of different designs. The rolls A are also screw-threaded, as at c , on which the collars F are screwed for the purpose of securing the dies in position.

When it is desired to remove the dies for any purpose whatever, it is simply necessary to remove the collars F and withdraw the dies from position. Other means than the screw-threads and collars before referred to can be employed for securing the dies in position; but they perform their function in a very satisfactory manner, and enable the dies to be adjusted without any trouble. The die D', in the present instance, is in relief, while the lower die, D, is sunken. Any suitable design can be formed on the dies, and, in addition to the design already referred to, we have provided the lower die with spikes or projections and the upper die with recesses or sockets, with which the said projections register. Thus it will be seen that as the strip of material from which this embossed gimp can be made is passed between the rolls, a highly-polished design is impressed thereon, and at the same time suitable tack-holes are formed equidistant apart, by means of which the gimp is secured to articles of furniture. This enables the tacks to be driven a uniform space apart in the entire set of furniture, and, besides possessing the advantage of being neater in appearance, also enables the work to be done much more quickly without injuring the gimp.

The material from which our gimp is manufactured should be of the proper width and of any desired length; but, if desired, the dies can be provided with cutting-edges, which will enable strips of irregular widths to be used, which, as they pass between the rolls, will have all superfluous material removed and produce a regular embossed strip.

It is evident that slight changes in the construction and arrangement of parts might be resorted to without departing from the spirit of our invention, and hence we would have it

understood that we do not limit ourselves to the exact construction shown and described, but consider ourselves at liberty to make such changes as come within the spirit and scope of our invention.

Having fully described our invention, what we claim as new, and desire to secure by Letters Patent, is—

1. In a machine for making gimp, the combination, with two cylindrical rolls having axial bores, and passages leading therefrom for conveying steam to the under sides of the dies, of removable dies secured to said rolls and supply and exhaust pipes communicating with the ends of said rolls, substantially as set forth.

2. In a machine for manufacturing gimp, the combination of two cylindrical rolls, each having a longitudinal passage for steam or other heating agent, and provided with an annular recess, over which a die is removably secured, and which communicates with the steam-passage of the roll and forms a steam-space, substantially as set forth.

3. The combination, with two rolls provided interiorly with passages, as described, and means for revolving both simultaneously, of removable dies secured on the rolls, and pipes for conveying steam against the inner faces of said dies, and pipes for conveying steam from the rolls, substantially as set forth.

4. The combination, with two rolls provided interiorly with steam-passages a , a' , and a'' , and the spaces E , of removable dies secured over said spaces by means of a nut and collar, and supply and exhaust pipes, substantially as set forth.

In testimony whereof we have signed this specification in the presence of two subscribing witnesses.

JOHN SCOTT LYNCH.
MARK ANTONY HEATH.

Witnesses:

F. G. ALLEN,
DANIEL H. HELME.