

H. SPRINGBORN & C. H. BAUSH.  
 BED-PIECES FOR CLOTH-PRESSING MACHINES.

No. 194,186.

Patented Aug. 14, 1877.

Fig: 1.

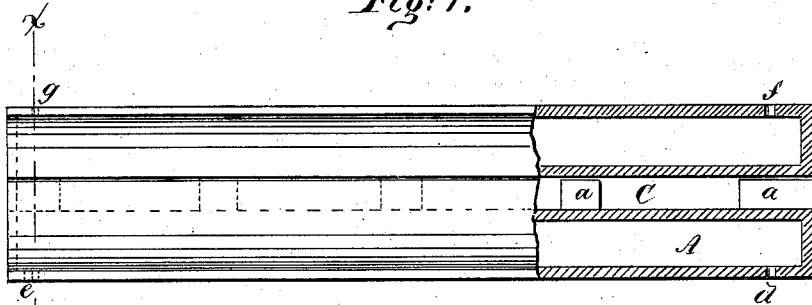


Fig: 2.

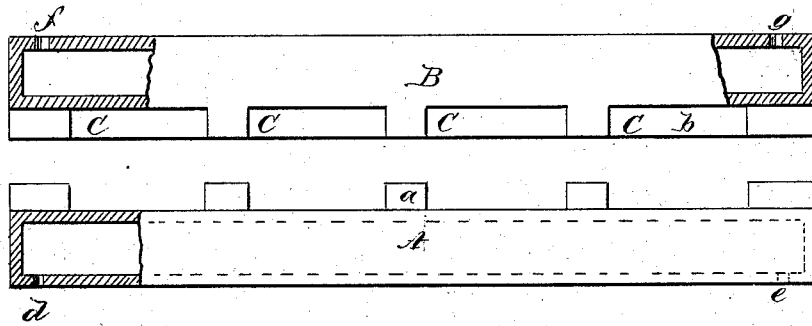
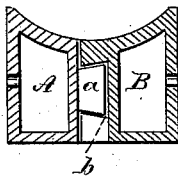


Fig: 3.



WITNESSES:

*Anas. Nida.*  
*J. N. Scarborough.*

INVENTORS

*H. Springborn*  
*C. H. Baush*  
 BY *[Signature]*  
 ATTORNEYS.

# UNITED STATES PATENT OFFICE.

HERRMAN SPRINGBORN AND CHRISTIAN H. BAUSH, OF HOLYOKE,  
MASSACHUSETTS.

## IMPROVEMENT IN BED-PIECES FOR CLOTH-PRESSING MACHINES.

Specification forming part of Letters Patent No. 194,186, dated August 14, 1877; application filed  
May 28, 1877.

*To all whom it may concern:*

Be it known that we, HERRMAN SPRINGBORN and CHRISTIAN H. BAUSH, of Holyoke, in the county of Hampden and State of Massachusetts, have invented a new and Improved Bed-Piece for Cloth-Pressing Machines, of which the following is a specification:

Figure 1 is a plan view, having a portion broken away to show the internal construction. Fig. 2 is an inverted plan view, also having parts broken away to show the interior. Fig. 3 is a transverse section on line *xx* in Fig. 1.

Similar letters of reference indicate corresponding parts.

The present invention relates to improvements in that class of cloth-pressing machines in which a pressing-roller is fitted to a heated concave bed.

Our invention consists in a hollow bed-piece, made in two parts, and connected by means of dovetail projections and recesses, and having between them air-spaces.

The object of the invention is to provide a bed for cloth-pressing machines in which both heat and cold may be employed, so that the cloth may be both hot and cold pressed in passing over the bed.

In the drawing, A and B are parts of the bed, which are made of cast-iron or other suitable material, and are each chambered out or made hollow—one to receive a current of water, cool air, or other suitable medium for cooling the bed, and the other for receiving steam, or for containing a gas-flame or other suitable heating medium.

The parts A B are connected together by dovetail projections *a*, formed on the part A, and a dovetail slot, *b*, formed in the part B, the side of which is cut away at C C, forming air-spaces that prevent the intercommunication of heat and cold. The parts are put together by sliding the dovetail projections *a* of

the part A into the dovetail slot *b* of the part B. This arrangement permits of the expansion of one part of the bed independently of the other part, so that as one part of the bed is warmed and the other cooled, neither part will be strained. Steam is taken into the part A through the aperture *d*, and the water of condensation is removed through the aperture *e*, and cold water is taken into the part B through the aperture *f*, and escapes through the aperture *g*. Cloth, in passing over the concave surface of the bed, is first subjected to hot pressure between the roll and the bed, and is afterward subjected to cold pressure beneath the same roll.

We do not confine ourselves to a bed of the exact construction herein shown and described, as it may be made in a single casting, and otherwise varied for certain classes of work; neither do we confine ourselves to any particular portion for the bed, nor to any special mode of heating or cooling it, as these may be varied without departing from our invention.

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

1. A concave bed for cloth-pressing machines, having two separate compartments and an intermediate air-space, one of the said compartments being for receiving a cooling medium, and the other for receiving a heating medium, substantially as shown and described.
2. A bed-piece for cloth-pressing machines, consisting of the separate chambered parts A B, connected by dovetail projections and slots, and having intermediate air-spaces, substantially as shown and described.

HERRMAN SPRINGBORN.  
CHRISTIAN H. BAUSH.

Witnesses:

C. SEDGWICK,  
ALEX. F. ROBERTS.