

Fig 1.

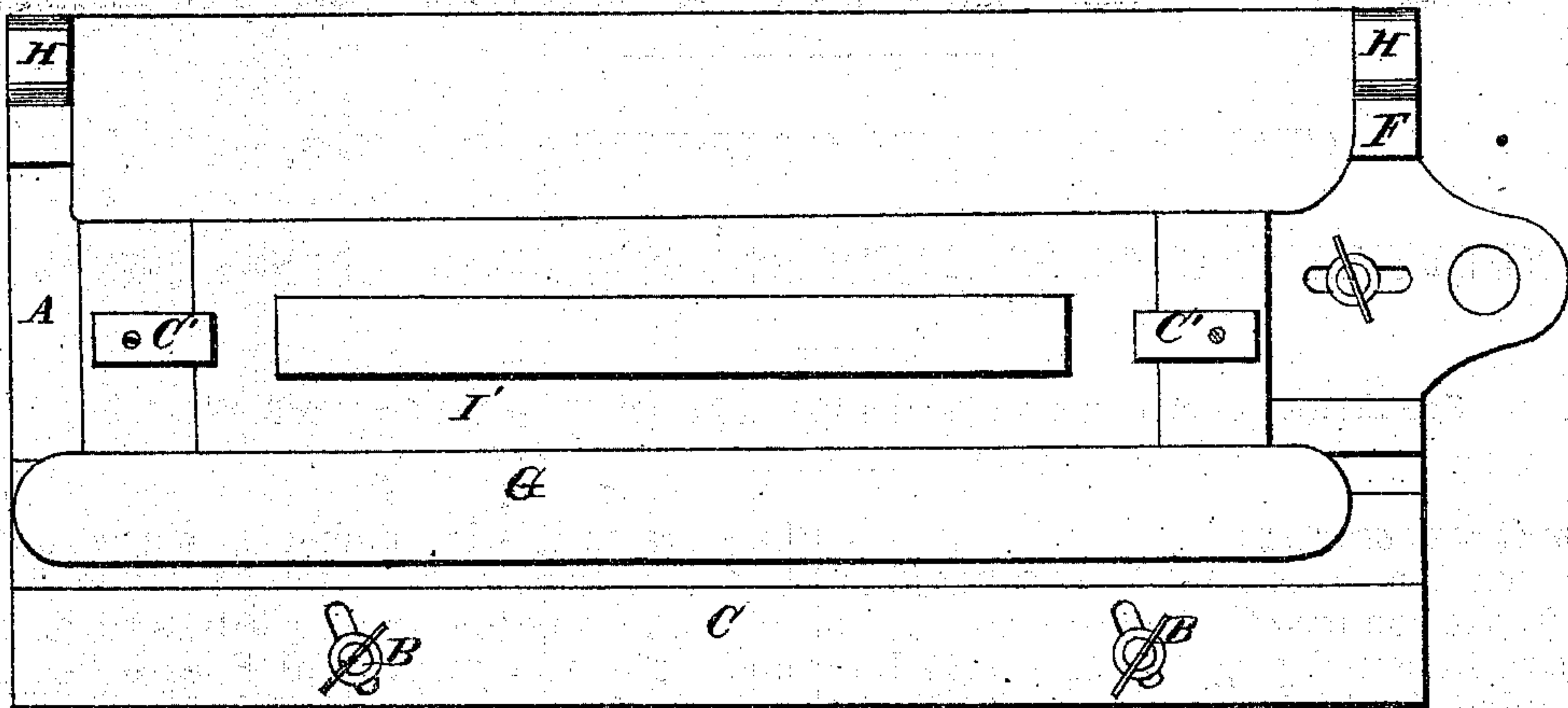


Fig 2.

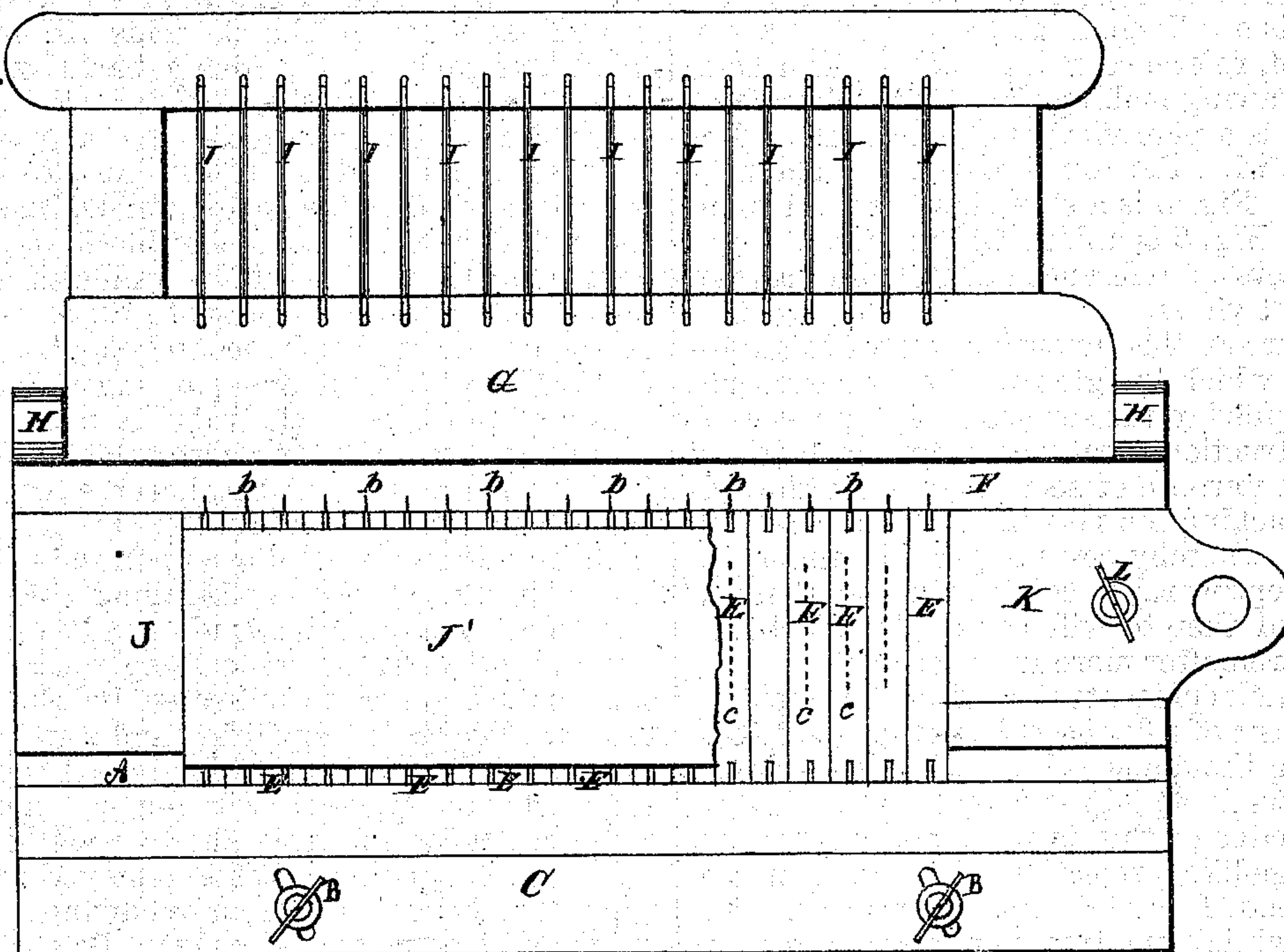


Fig 3.

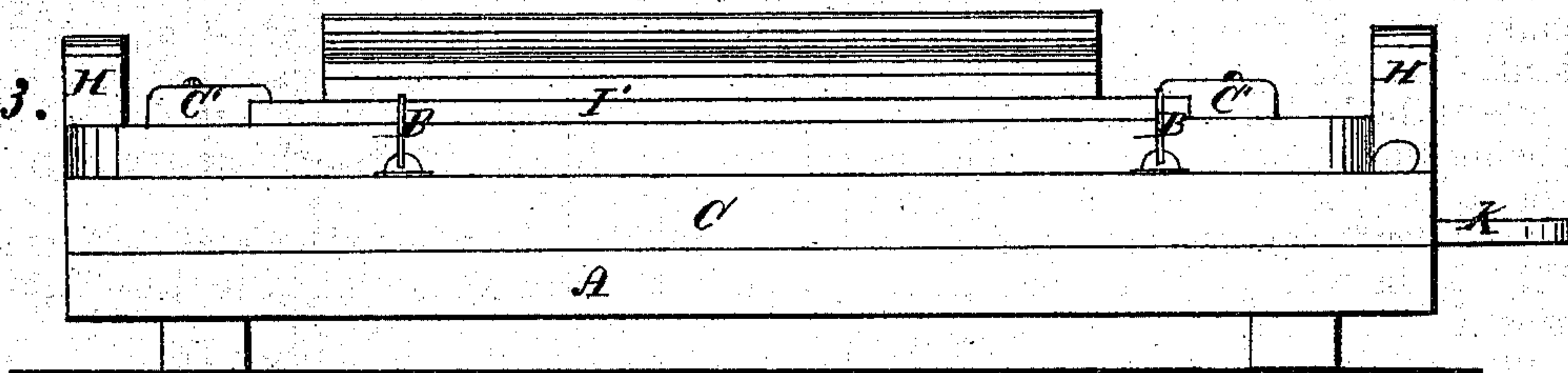


Fig 4.

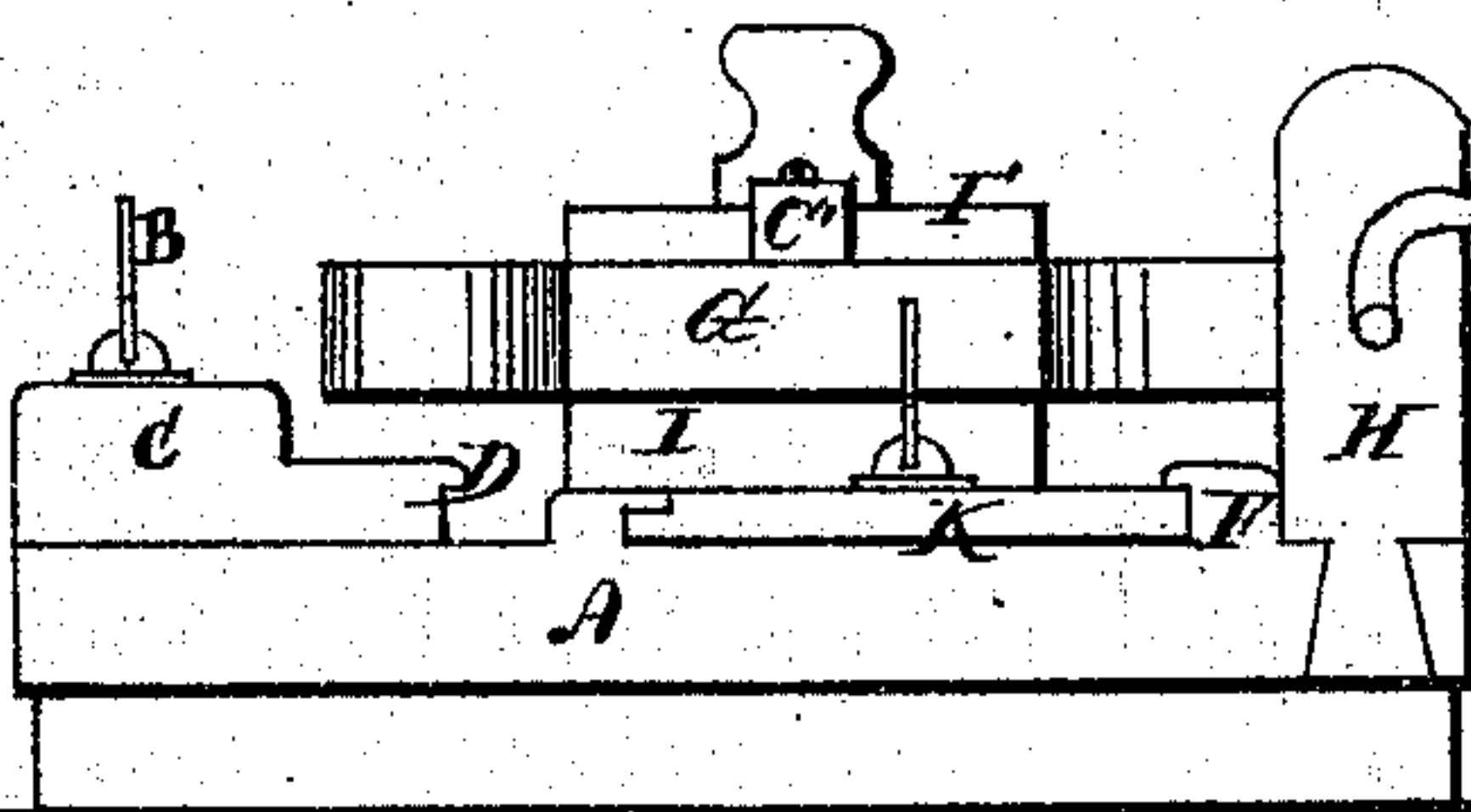
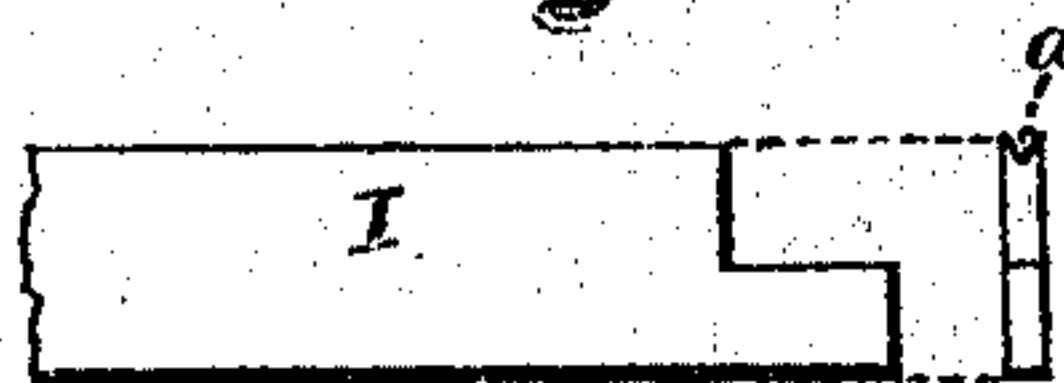


Fig 5.



Witnesses.
J. H. Burridge,
D. L. Humphrey.

Inventor.
C. D. Goodman

UNITED STATES PATENT OFFICE.

CZAR D. GOODMAN, OF CLEVELAND, OHIO.

IMPROVEMENT IN MACHINES FOR CLOTHING ORGAN AND MELODEON-VALVES.

Specification forming part of Letters Patent No. 119,458, dated October 3, 1871.

To all whom it may concern:

Be it known that I, CZAR D. GOODMAN, of Cleveland, in the county of Cuyahoga and State of Ohio, have invented a certain new and Improved Machine for Clothing Organ and Melodeon-Valves; and I do hereby declare that the following is a full, clear, and complete description thereof, reference being had to the accompanying drawing making part of the same.

Figure 1 is a plan view of the machine. Fig. 2 is a view with the top thrown open, showing the inside. Fig. 3 is a side view. Fig. 4 is an end view. Fig. 5 is a detached view.

Like letters of reference denote like parts in the different views.

The nature of this invention relates to an apparatus by which the glue or other adhesive material is applied to the surface of the valves used in the construction of cabinet organs, melodeons, &c., for the purpose of securing thereto the material for packing the said valve. It also relates to a device whereby certain parts of the apparatus are kept warm in cold weather, so that the glue applied thereto will not chill while being used, as hereinafter more fully set forth.

In Fig. 2, A represents the bed of the machine, which consists of a flat base, in shape a parallelogram, along the upper side of which is secured, by set-screws B, an adjustable cleat, C. The inner under edge of this is rabbeted, leaving an upper flange-like projection, D, Fig. 4, under which one end of a series of naked valves, E, Fig. 2, are held while being treated or clothed; whereas the opposite end is held in a similar manner by a stationary cleat, F, and adjusted therein, as will presently be shown. G is a leaf, pivoted on one side of the bed in standards H, which admit of its being turned down upon the bed, as shown in Fig. 1, or back therefrom, as shown in Fig. 2. Said leaf consists of a frame, as shown in Fig. 2, in which is secured transversely a series of metal bars, I, in the lower edge of which is cut a groove, *a*, as shown in Fig. 5. Said bars project below the face of the frame, as will be seen in Fig. 4, so that when the leaf is turned down upon the bed the bars strike upon the valves E arranged therein, thereby keeping the leaf or the frame thereof above the bed, as shown in said Fig. 4.

The practical operation of this apparatus is as follows: A series of naked valves, E, which may

be more or less in number, is placed in the bed by first moving back the adjustable cleat C. This will allow one end of the valves to be inserted under the stationary cleat F, care being taken to have the slit in the end of the valve range in line with the marks *b* made on the face of the cleat F, as shown in Fig. 2. This will bring the middle of each valve under a bar, I, when the leaf is turned upon them. The naked valves, when thus arranged in order, are then secured by pushing forward the adjustable cleat, which will cover and hold the opposite end of the valves. The valves rest against a foot-block, J, and are crowded sidewise together by a slide, K, secured to the bed by a thumb-screw, L. By this means all the naked valves are securely held in the bed for receiving the glue and packing. The application of the glue to the valve is made by first supplying the bars I therewith, which is done by filling the groove *a* in the lower edge thereof with glue by means of a brush. This being done, the leaf is then turned down upon the valves, as shown in Fig. 3, thereby bringing each of the bars down upon a corresponding valve, and thus depositing a streak of glue along the middle of each naked valve, as indicated by the dotted lines *c*. The leaf is now lifted and a strip of soft leather, J', Fig. 2, is laid along upon the top of series of valves, which will adhere thereto in consequence of the glue, thereby clothing the valves with packing. When removed from the apparatus they are separated by cutting the packing through between each valve. By this means the packing is secured to the valve by a narrow line of glue along the middle thereof, leaving the sides and ends unglued, thus avoiding a stiffening of the leather, which is left free, soft, and flexible, so that it will close the air-passages most effectually.

In cold weather, when the metal bars are liable to chill the warm glue applied to them, said bars may be kept warm by the application to them of a soap-stone heater, I', Fig. 1, which, on being heated, will keep the bars warm and thereby prevent the glue applied to them from chilling. Ordinarily, however, the heater is not required, and therefore may be removed from the leaf, as it is simply secured thereto by the buttons C'. Said bars may be kept warm by the application of hot water, steam, or gas.

It will be obvious that the number of valves

treated with glue at once may be more or less. The capacity of the apparatus may be equal to a set of valves equal to the whole number of reeds, or any portion thereof, as aforesaid.

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

1. The leaf G, consisting of a rectangular frame having arranged transversely therein a series of grooved metal bars, I, substantially in the manner as described, and for the purpose specified.

2. The leaf G, as arranged to operate, in combination with the bed A, in the manner substan-

tially as described, and for the purpose set forth.

3. The bed A, consisting of the adjustable cleat C, cleat F, block J, and slide K, all arranged to operate in relation to each other substantially in the manner as described, and for the purpose set forth.

4. The heater I', in combination with the bars I, for the purpose specified.

CZAR D. GOODMAN.

Witnesses:

J. H. BURRIDGE,

F. C. WRIGHT.

(74)