

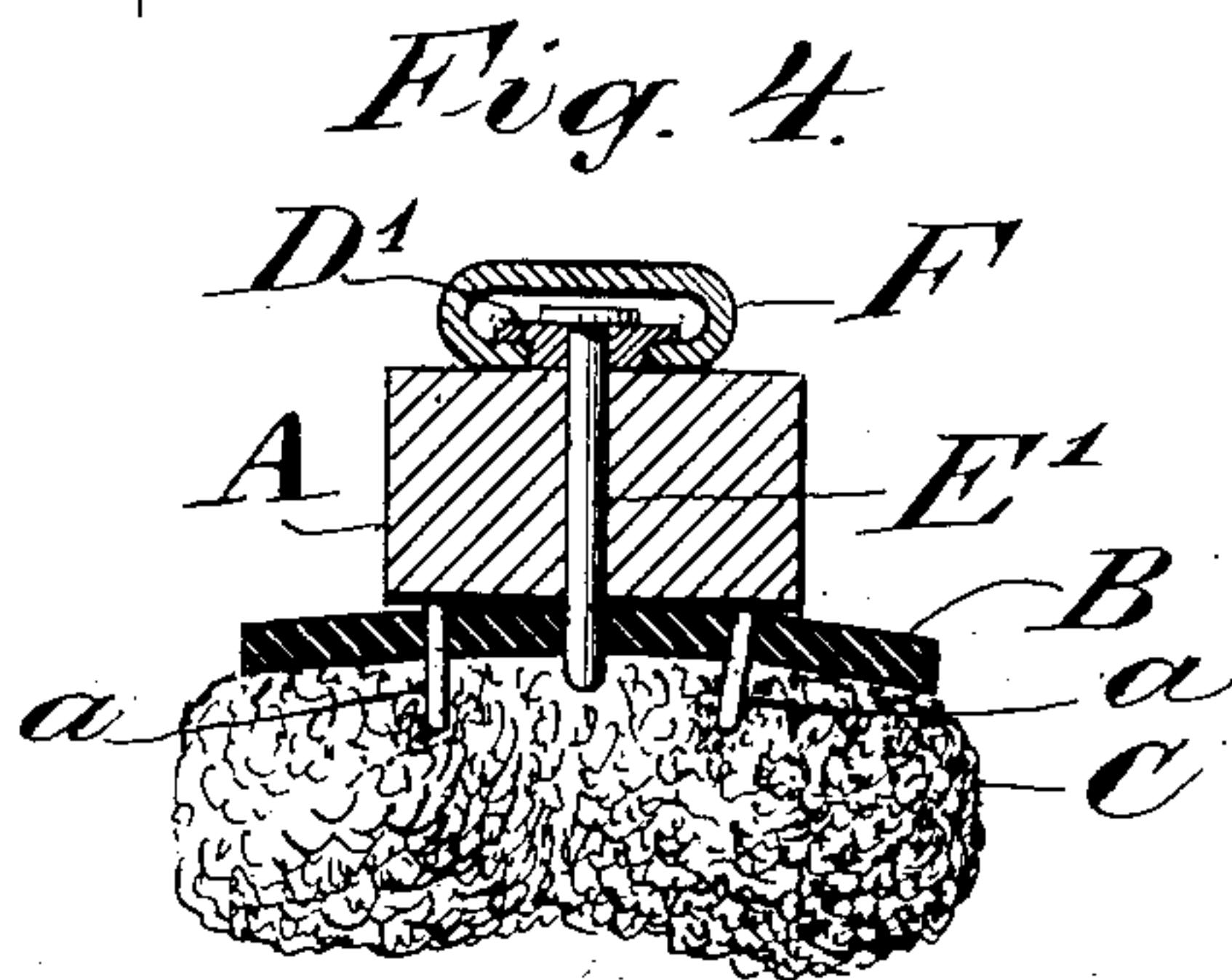
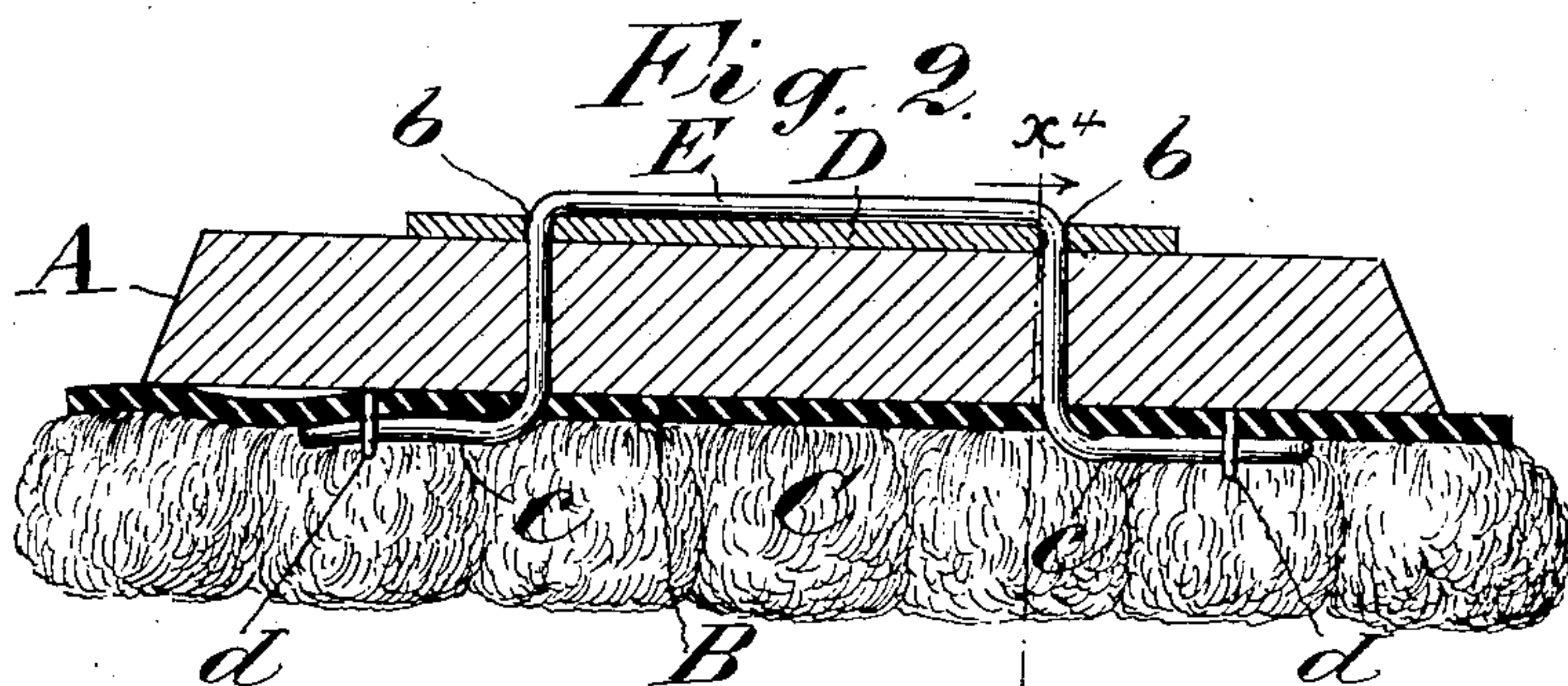
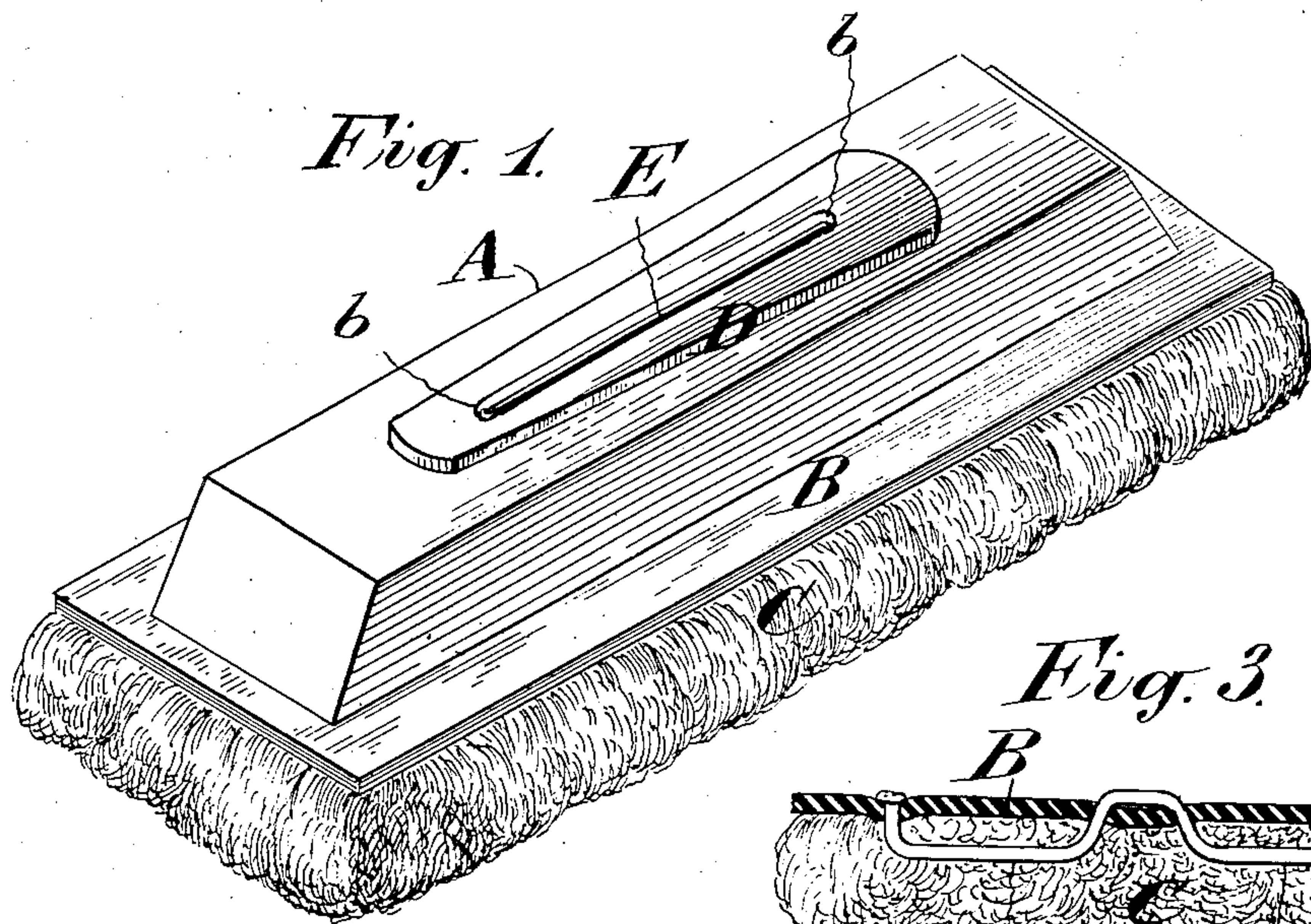
No. 765,314.

PATENTED JULY 19, 1904.

H. A. HAYDEN.
WINDOW CLEANER.

APPLICATION FILED OCT. 31, 1903.

NO MODEL.



WITNESSES:

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HENRY A. HAYDEN, OF JERSEY CITY, NEW JERSEY, ASSIGNOR TO
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WINDOW-CLEANER.

SPECIFICATION forming part of Letters Patent No. 765,314, dated July 19, 1904.

Application filed October 31, 1903. Serial No. 179,260. (No model.)

To all whom it may concern:

Be it known that I, HENRY A. HAYDEN, a citizen of the United States, residing in Jersey City, Hudson county, New Jersey, have invented certain new and useful Improvements in Window-Cleaners, of which the following is a specification.

This invention relates to hand-operated devices for cleaning windows and the like; and the object is to provide a cleaner with a rigid grip-block and a moderately-flexible waterproof base for the support of the absorbent material with which the cleaner is furnished.

Another feature of the invention resides in the simple and inexpensive means employed for securing the parts together.

In the accompanying drawings, which illustrate an embodiment of the invention, Figure 1 is a perspective view of the cleaner. Fig. 2 is a central longitudinal section thereof. Fig. 3 is a fragmentary sectional view illustrating the means employed for securing together the backing and the absorbent material. Fig. 4 is a cross-section taken at x^4 in Fig. 2, but showing slight variation in the means for securing the parts together. Fig. 5 is a means for attaching a handle to the cleaner.

A designates the grip-block.

B designates the backing, preferably of rubber and about one-eighth of an inch thick.

C designates the absorbent material, preferably sponge in relatively small pieces.

The backing B will be, by preference, of oblong rectangular form and of such dimensions as to project beyond the wooden block A all around, so that in use it will serve as a soft and yielding fender between the harder block and the glass or woodwork being cleaned.

In constructing the cleaner the sponge C is secured to the face of the backing, as seen in Figs. 3 and 4, by means of cord or stout thread a , sewed through the backing and made to take over and embrace the sponge, so as to draw it up firmly to the backing and secure it thereto. Each separate piece of sponge must be thus secured in place.

The grip-block A is secured to the backing by the means shown best in Fig. 2. On the

back of the block is an attaching-plate D, by which a handle may be secured removably to the cleaner, if desired, and in this plate are two holes at $b b$. A piece of strong wire E is bent and its ends passed through said holes $b b$ and driven through the block and backing. The surplus portions $c c$ of the said ends are then bent until they lie flat against the under surface of the backing B, and staples d are driven in to hold them in place.

Fig. 4 shows a slight variation from the single bent securing-wire E. In this construction two wire nails E' are employed. The result is, however, substantially the same. This view, Fig. 4, also shows how the flexible backing B, secured to the block only along its median line, may bend away from it freely about its margin.

When the implement is used without a long handle, the hand grasps the block A as a convenient grip; but means are provided for attaching a long handle to the implement removably, as seen in Figs. 4 and 5. The plate D' is tapered and undercut along its sides, and a tapered slide F is made to pass over said plate D' at its narrower end and is then pushed up until it fits snugly. A hinged keeper G on the slide is then swung around, so as to take over the end of the plate D' and keep the slide F from slipping off. To the slide F is secured an adjustable socket I for a handle H. This means for securing a handle removably to the block A is only briefly described herein, as it is described and claimed in another application of mine now pending, Serial No. 164,740, filed July 8, 1903, and is illustrated in this application merely to show how the implement may be provided with a removable and adjustable handle.

Having thus described my invention, I claim—

1. A cleaning implement, comprising a grip-block, an absorbent material, and a backing for the absorbent material, said backing disposed between the latter and said grip, said backing being composed of soft and moderately-flexible waterproof material and being secured to the grip-block along its median line

and projecting out beyond the latter to form a fender, substantially as described.

2. A cleaning implement, comprising a grip-block of hard material, a backing-sheet of rubber, and an absorbent material secured to said backing-sheet, the said sheet being secured to the grip by fastenings of stout wire which extend through the grip and backing and are bent down upon the face of the latter and secured thereto.

3. A cleaning implement, comprising a backing-sheet of rubber, sponge secured to the face of said sheet by flexible means, and a grip-block of wood secured to the outer face of the backing and along the median line of the lat-

ter, the backing extending out beyond said block all around to form a fender.

4. The combination with the backing B, the sponge C secured thereto, the grip-block A, the attaching-plate, and the wire fastening E securing the plate D to the block and the latter to the backing, substantially as set forth.

In witness whereof I have hereunto signed my name, this 30th day of October, 1903, in the presence of two subscribing witnesses.

HENRY A. HAYDEN.

Witnesses:

BENJAMIN H. HOLT,

WILLIAM J. FIRTH.