

(No Model.)

A. G. BUZBY.
PENCIL SHARPENER.

No. 435,917.

Patented Sept. 9, 1890.

Fig. 1.

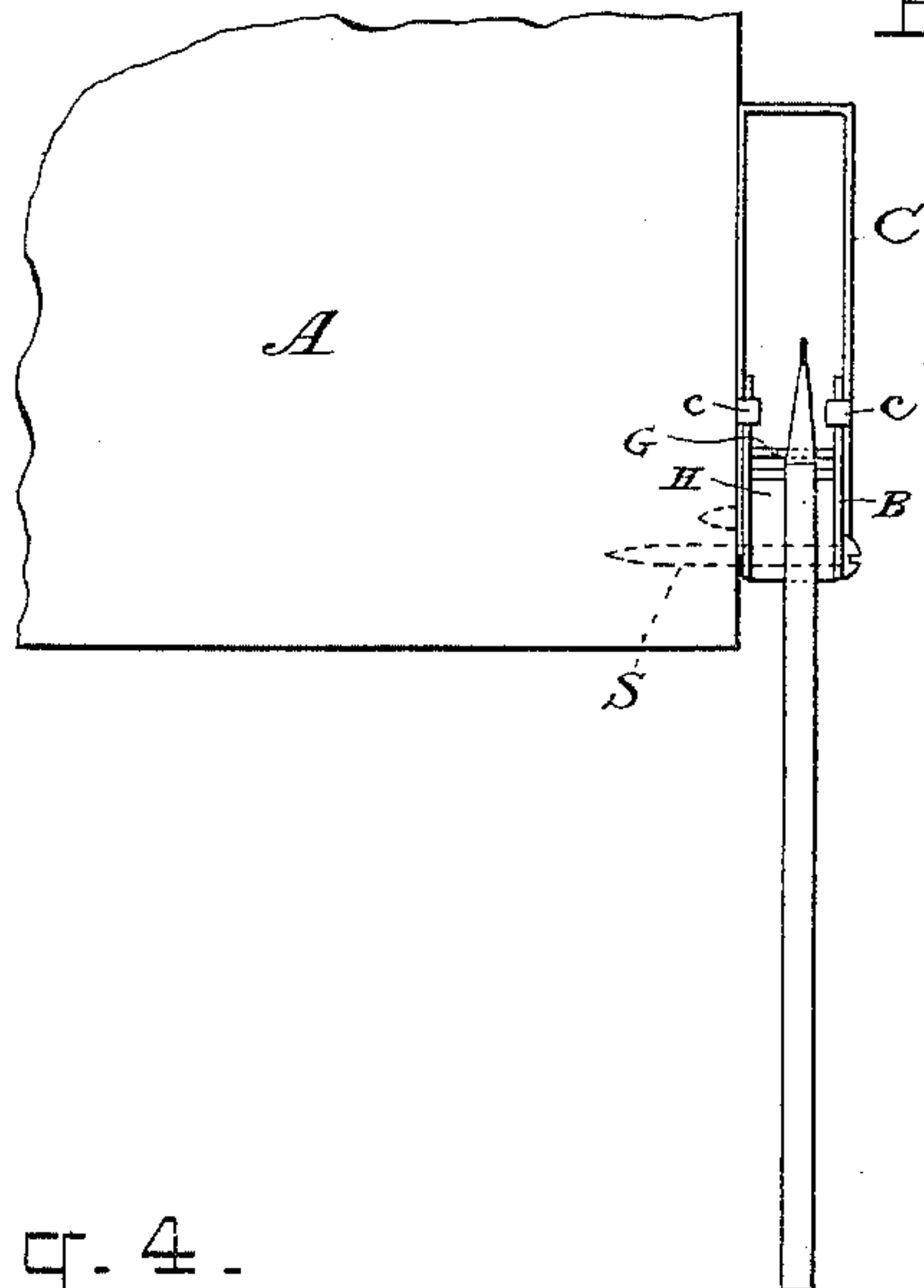


Fig. 2.

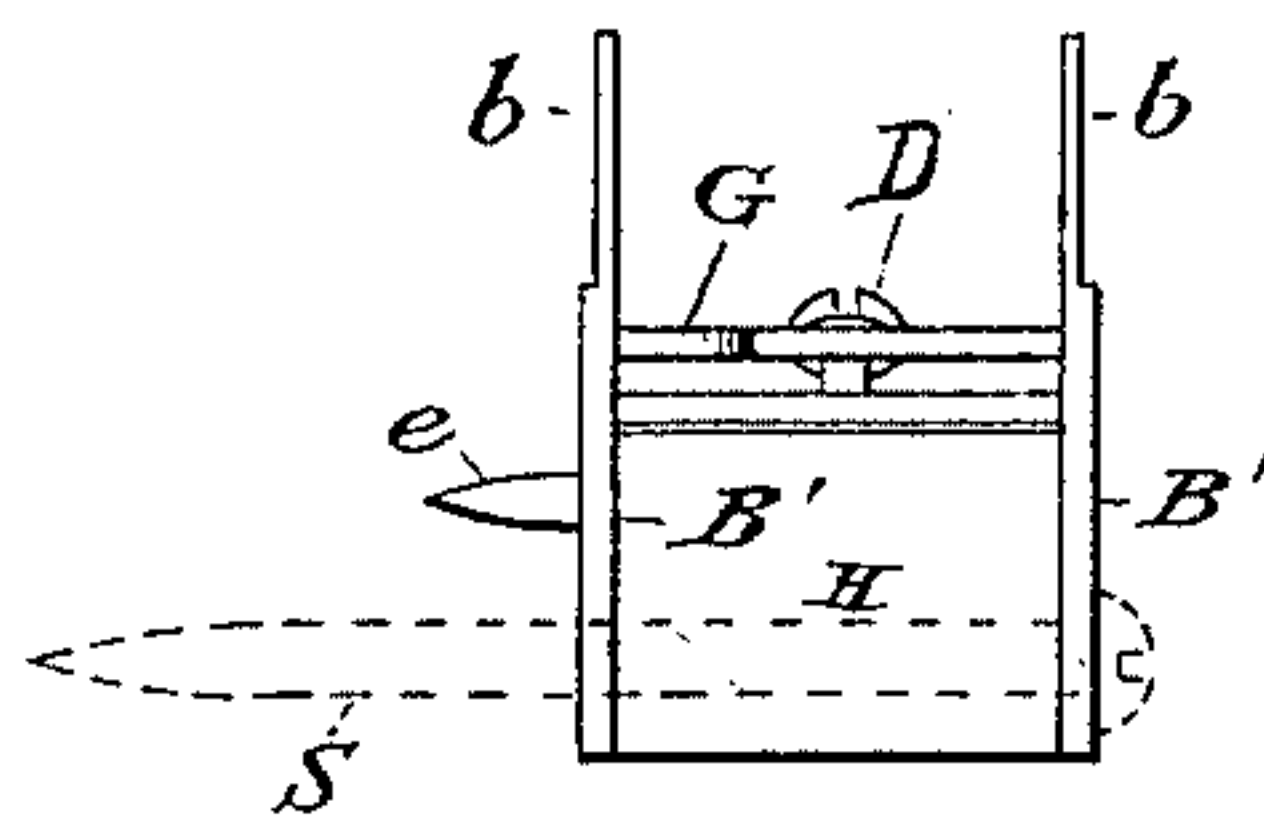


Fig. 4.

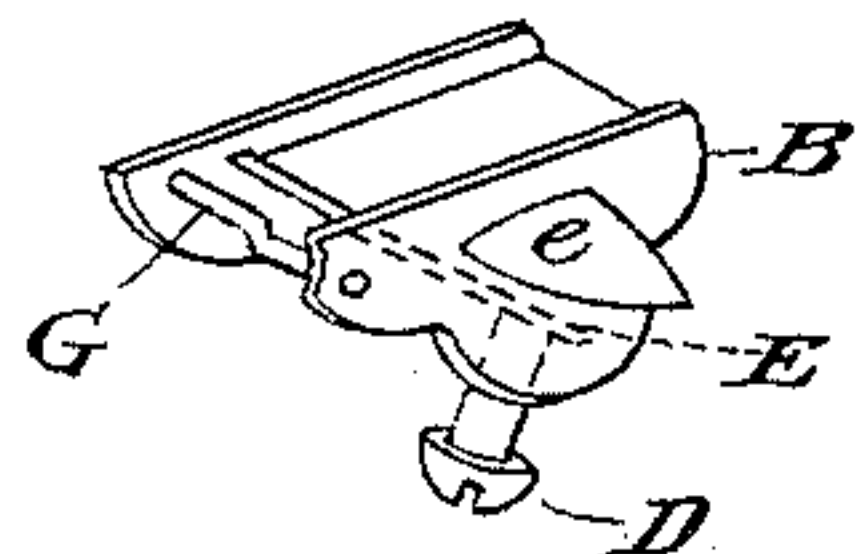


Fig. 3.

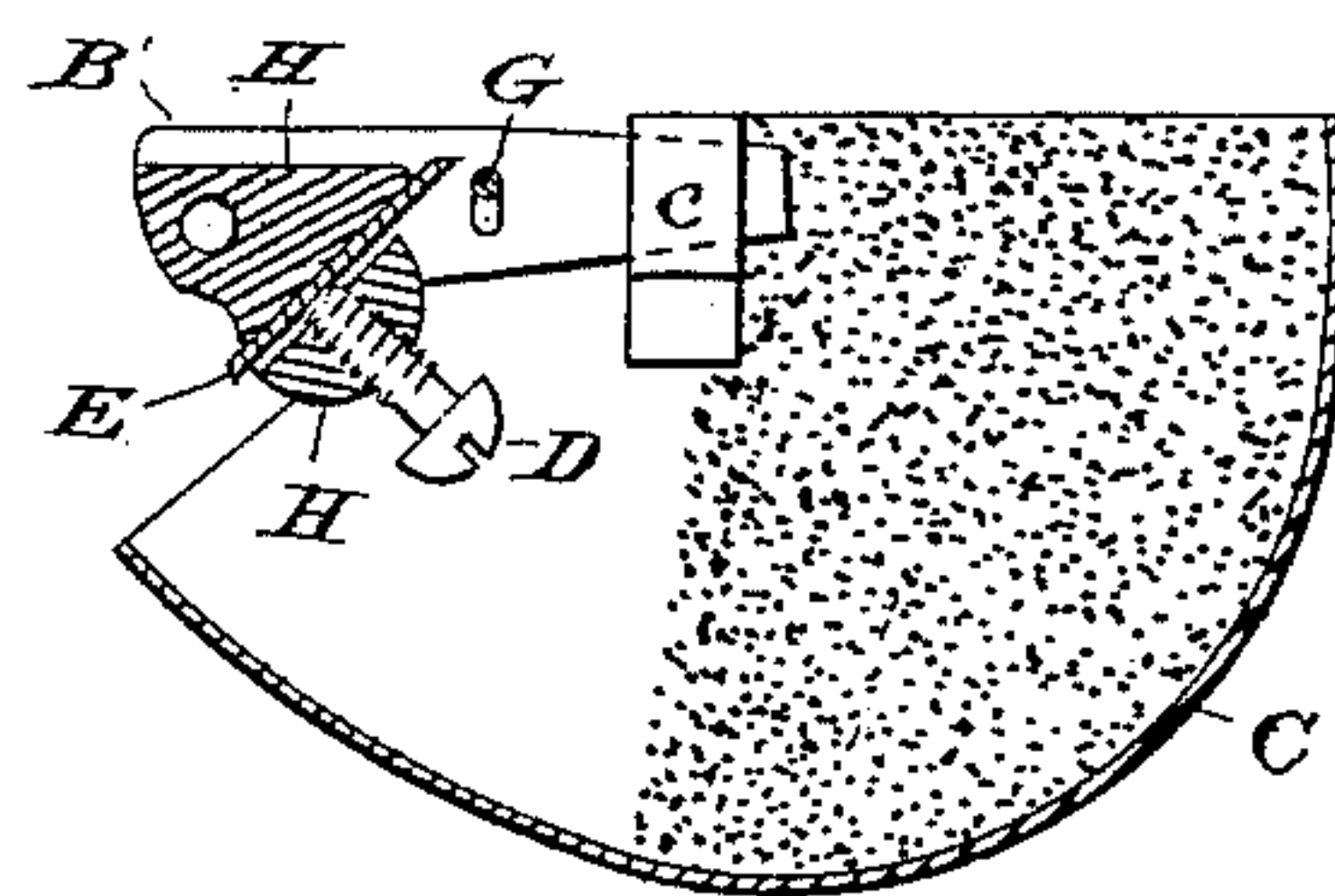


Fig. 5.

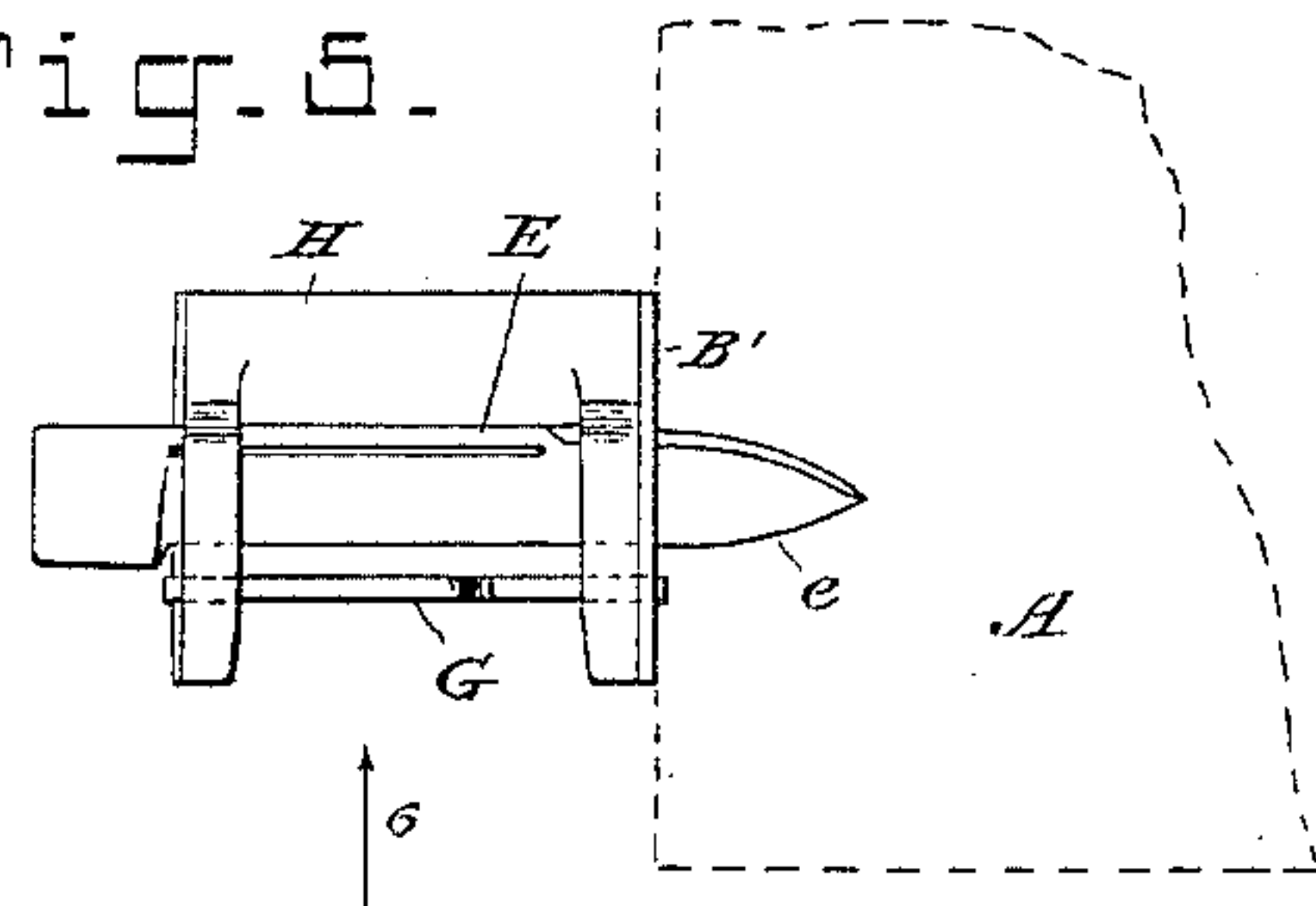
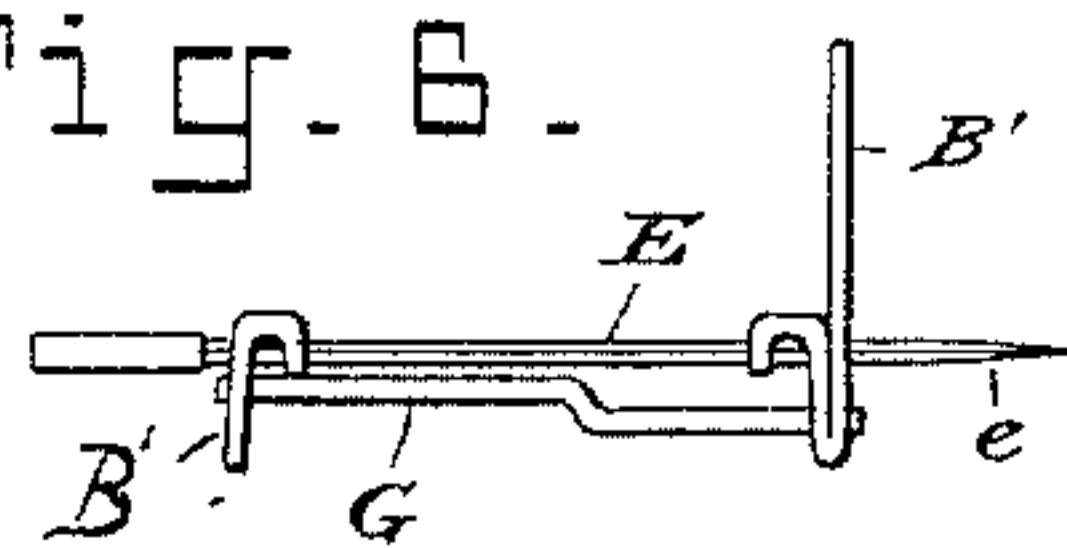


Fig. 6.



WITNESSES-

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UNITED STATES PATENT OFFICE.

ALBERT G. BUZBY, OF NEW YORK, N. Y.

PENCIL-SHARPENER.

SPECIFICATION forming part of Letters Patent No. 435,917, dated September 9, 1890.

Application filed February 20, 1890. Serial No. 341,124. (No model.)

To all whom it may concern:

Be it known that I, ALBERT G. BUZBY, of the city of New York, county and State of New York, have invented an Improved Pencil-Sharpener, of which the following is a specification.

The object of my invention is to make a convenient sharpener which may be readily and securely attached to the side of a desk, bench, or other article of office or shop furniture and by which the end of the pencil can be cut and pointed without soiling the hand and without scattering about the chips and pulverized lead which usually accompany the operation of sharpening pencils in the ordinary manner.

My invention is fully disclosed in the following specification, of which the accompanying drawings form a part, and in which—

Figure 1 is a plan view of a section of a desk and my improved pencil-sharpener attached thereto. Fig. 2 is another plan view of a pencil-sharpener with the receptacle usually connected therewith omitted. Fig. 3 is a central vertical section of the pencil-sharpener and receptacle. Fig. 4 represents a modification of the form shown in Fig. 2, and Figs. 5 and 6 represent modifications of my improved pencil-sharpener.

Referring to the drawings, A represents a section of a desk or other article of office-furniture, and B my improved pencil-sharpener secured thereto by a screw S.

The sharpener consists, preferably, of a casting having two irregular sides B' B', united by a center portion H, the top of which forms a table or rest for the pencil in the operation of sharpening and is slightly below the tops of the sides B'. Extending through this central portion from side to side is an inclined slot, in which is placed the blade E of the sharpener, which may be adjusted to any desired position by means of a set-screw D.

Extending from side to side of the sharpener and just in front of the cutting-edge of the blade is a guard G, which consists of a wire or rod which is retained in position by being passed through the sides B'. This guard G is curved about its center, as shown in Fig. 4, in such a manner that for about half of its length it is in close proximity to the cutting-

edge of the blade and for the rest of its length at a greater distance from the cutting-edge, both portions, however, being substantially parallel with the edge of the blade.

The sharpener is preferably attached to a receptacle C of tin or other suitable material by means of loops c, attached to the inside of the side walls thereof, for which purpose the sides B' of the sharpener are provided with projections b, which fit securely within said loops. The receptacle C is preferably of the form shown in Figs. 1 and 3, the latter being a central longitudinal vertical section of the same with the sharpener attached, and is provided on its inner side walls with emery or other granulated grinding material, either by cementing it directly to the surface or by gluing sand or emery paper to the same. It is evident, however, that the receptacle C may be omitted, together with the arms or projections b, and the sharpener made as shown in Fig. 4, and attached directly to a desk by means of a screw, as shown in Figs. 1, 2, and 3, or by means of a projecting blade, as shown in Fig. 4, which may be driven into the desk or other support. The receptacle is intended, principally, for the cut-away portions or chips from the pencil, and may be removed and emptied at pleasure.

The operator may cut away in the first instance the wooden portion of the pencil by applying the pencil to the blade over that portion of the guard G which is at the greatest distance from the blade and drawing it toward himself, and then by placing the partially-sharpened pencil over or in contact with that portion of the cutting-edge closest to the guard G in a properly-inclined position and drawing it backward and forward, and at the same time turning it with his fingers, he can soon reduce the wood and lead to the required tapering form, and then the lead may have a fine point imparted to it by rubbing over the grinding-surface on the inner walls of the receptacle.

It will be noticed that the chips made by the blade of the sharpener fall into the receptacle C when the same is employed, as must also the lead-dust which is made by rubbing the point of the pencil on the grinding-surface inside of the receptacle, and the accumu-

lations of dust and chips may be removed from the box from time to time whenever desired, as hereinbefore stated.

In Figs. 5 and 6 I have shown another modification of my improved pencil-sharpener, Fig. 5 being a plan view of the same attached to a desk, and Fig. 6 a front side elevation. In this form of construction the central piece H has no slot, but is simply formed of a thin piece of metal, to which the side pieces B' are attached in any desired manner. The said side pieces are also formed of thin metal, and are preferably curved over at the top, as shown in Fig. 6. The cutting-blade consists of an ordinary knife-blade passed through the sides near the top and projecting a sufficient distance to enable the projecting portion to be driven into the side of a desk, whereby the sharpener is held securely in place. The guard G is of the same construction as that shown in Figs. 1, 2, and 3, and the operation in sharpening the pencil is the same as with the construction hereinbefore described.

Having fully described my invention, its construction, and operation, I claim and desire to secure by Letters Patent of the United States—

1. A pencil-sharpener having the sides B', the central portion H, provided with an inclined slot, the cutting-blade E in said slot, a set-screw, as D, and a guard G, substantially as shown and described.

2. The combination, in a pencil-sharpener, of the sides B', a central portion connecting said sides, an inclined slot in the said central portion, a cutting-blade in said slot, a set-screw for regulating the position of the blade, and a guard in front of the cutting-edge of the blade, substantially as shown and described.

3. The combination, in a pencil-sharpener, of the sides B', a central portion connecting said sides, an inclined slot in the said central portion, a cutting-blade in said slot, a set-screw for regulating the position of the blade, and a guard curved at its center, so that a portion of the same is at a greater distance from the edge of the cutting-blade than the remaining portion, substantially as shown and described.

4. The combination, in a pencil-sharpener, of the sides B', a central portion connecting said sides, provided with an inclined slot, a cutting-blade in said slot, a guard for regulating the position of the pencil, and a fast-

ening device, whereby the sharpener may be attached to the edge of a desk, substantially as shown and described.

5. The combination, with a pencil-sharpener having projecting arms, as b, of a receptacle provided with loops, as c, substantially as shown and described.

6. The combination of a pencil-sharpener provided with the projecting arms b, the receptacle provided with the loops c, and means for attaching the sharpener to the side of a desk, substantially as and for the purposes set forth.

7. The combination, in a pencil-sharpener, of the sides B, the central portion H, having an inclined slot, the cutting-blade E in said slot, the guard G, and the fastening device e, by which the sharpener may be attached to the side of a desk, substantially as shown and described.

8. The combination, in a pencil-sharpener, of the sides B', a central portion connecting said sides, a cutting-blade extending from side to side, a guard in front of said blade, and a fastening device projecting from one of said sides, whereby the sharpener may be attached to the side of a desk, substantially as shown and described.

9. The combination, with a desk, of a pencil-sharpener having side pieces, as B', a center or connecting piece, and a cutting-blade passing through the side pieces and projecting from one of the same, the projecting portion forming a fastening device by which the pencil-sharpener is attached to the desk, substantially as shown and described.

10. The combination, in a pencil-sharpener having parallel sides, of a cutting-blade extending from side to side, and a fastening device projecting from one of said sides, whereby the sharpener may be attached to a desk, substantially as shown and described.

11. The combination, with a pencil-sharpener having parallel sides and means for attaching it to a desk, of a chip and dust receptacle detachably connected with the sides of the sharpener, substantially as and for the purposes set forth.

Signed at New York, in the county of New York and State of New York, this 15th day of February, A. D. 1890.

ALBERT G. BUZBY.

Witnesses:

T. V. BLENKHORN,
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