(No Model.)

A. FLACH.

TRIMMER FOR REEDS FOR MUSICAL INSTRUMENTS.

No. 492,668. Patented Feb. 28, 1893.

Fig. 1.

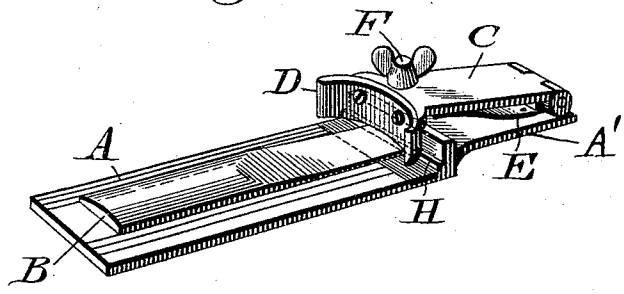


Fig. 2.

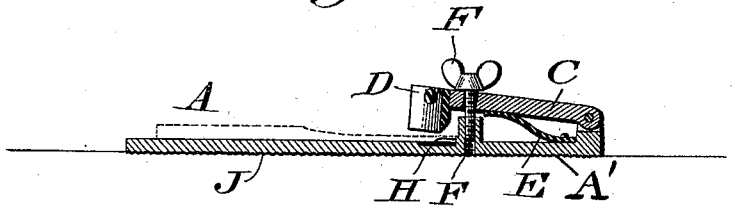


Fig. 3

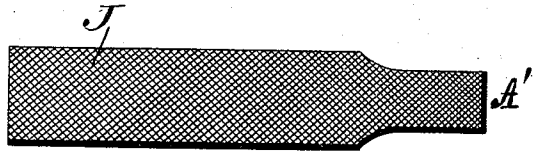
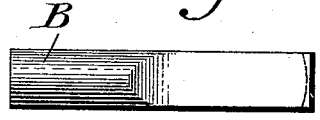


Fig. 4.



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TRIMMER FOR REEDS FOR MUSICAL INSTRUMENTS.

SPECIFICATION forming part of Letters Patent No. 492,668, dated February 28, 1893.

Application filed February 23, 1892. Serial No. 422,377. (No model.)

To all whom it may concern:

Be it known that I, ADAM FLACH, a citizen of the United States, residing in the city and county of Philadelphia, State of Pennsylvania, have invented a new and useful Improvement in Trimmers for Reeds for Musical Instruments, which improvement is fully set forth in the following specification and accompanying drawings.

My invention consists of a trimmer for reeds of clarinets, and other wind musical instruments, formed of a bed having a gage for the reed, a blade for cutting the reed, an arm which carries said blade and means for advancing the arm and returning the same, as will be hereinafter set forth.

Figure 1 represents a perspective view of a trimmer embodying my invention. Fig. 2 represents a longitudinal section thereof. Fig. 3 represents a bottom plan view thereof. Fig. 4 represents a face view of a reed to be trimmed.

Similar letters of reference indicate corresponding parts in the several figures.

Referring to the drawings:—A designates a bed formed of metal or other suitable material for supporting the reed B, and C designates an arm which is hinged to the extension A′ of the bed, and having secured to it at the end opposite to its axis, the blade D, which is thus located above the bed.

E designates a spring which is connected with the bed and bears upwardly against the arm C for holding the same, and consequently the blade in elevated position.

F designates a screw which is passed through the arm into the bed, and having its head G on said arm, whereby by properly rotating the screw, the arm is lowered and the blade accordingly advanced toward the bed. Rising from the bed between the blade and screw is a shoulder H, which forms a stop or gage for the end of the reed to be cut or trimmed.

A reed of the kind stated is made of a piece of carefully selected wood. It is thinned at one end and the edge of the latter requires to be most delicately cut in order to produce fine and clear notes, hence a delicately constructed and carefully operated trimmer is necessary to produce such edge.

The operation is as follows:—The reed is placed on the bed, and the end to be trimmed rested against the shoulder H as a gage. The screw F is now properly rotated, whereby the blade is advanced, and its cutting edge forcibly driven through the reed, thus trimming the same, the edge produced being sharp and regular, without roughness or jaggedness, which latter is an objectionable feature in reeds, owing to the delicate nature of the same. The reed may be removed and the screw rotated in reverse order, the blade then rising or returning to its normal position, owing to the pressure of the spring E.

The bed has a file-surface J, whereby the reed may be subjected to a filing action when so desired, the extended end A′ of the bed A being narrowed forming a handle, whereby the implement may be held during the trimming and filing operations.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The bed A, the gage H rising from the same, the extension A′ of said bed, the arm C hinged to said extension, the blade D connected with said arm, the advancing screw F passing through said arm into said bed, and the returning spring E bearing against said arm, the said extension forming the handle of the implement, substantially as described.

2. A bed, an arm hinged thereto, a blade secured to said arm, a gage on said bed, and an advancing screw and a returning spring connected with said bed and arm, said screw passing through the free end of said arm close to the blade thereon, said parts being combined substantially as described.

3. The bed A, the gage H rising therefrom, the extension A′ of the bed beyond said gage, the arm C hinged to said extension, the blade D connected with the free end of the arm adjacent to the gage, and the screw F passing through the arm into the extension near said free end of the arm, said parts being combined substantially as described.

ADAM FLACH.

Witnesses:
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