W. B. ELLSWORTH.

TUNING PIN POLISHER.

APPLICATION FILED DEC. 13, 1918.

1,329,701. Patented Feb. 3, 1920.

Fig. 1.

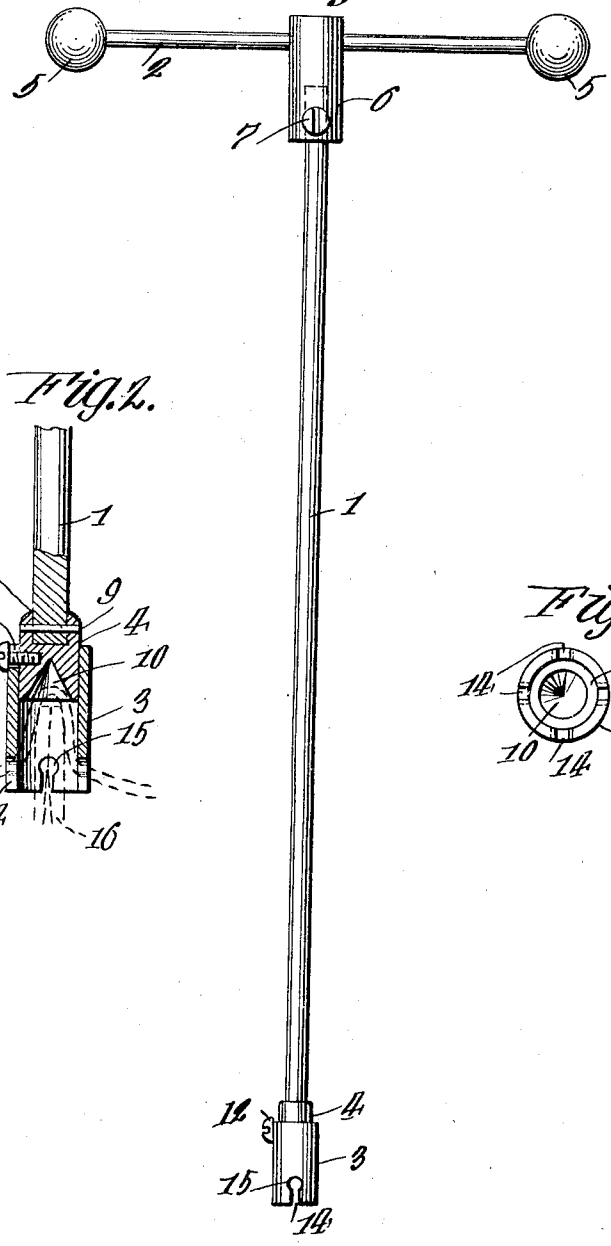


Fig. 2.

Fig. 3.

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UNITED STATES PATENT OFFICE.

WILLIAM B. ELLSWORTH, OF HUDSON, OHIO.

TUNING-PIN POLISHER.

1,329,701. Specification of Letters Patent. Patented Feb. 3, 1920.

Application filed December 13, 1918. Serial No. 266,594.

To all whom it may concern:

Be it known that I, WILLIAM B. ELLSWORTH, a citizen of the United States, residing at Hudson, in the county of Summit and State of Ohio, have invented certain new and useful Improvements in Tuning-Pin Polishers, of which the following is a specification.

The invention provides a tool to admit of the projecting ends of tuning pins of stringed musical instruments of the pianoforte type being readily and conveniently polished in the event of becoming corroded or covered with moisture, rust or the like so as to present a highly pleasing and attractive appearance.

While the invention is primarily designed to provide a tool for polishing the tuning pins of pianos it is to be understood that it may be advantageously employed for polishing tuning pins of stringed musical instruments of various types.

The invention provides a tool which may be easily taken apart to be stored in compact form and which may be quickly adjusted for use when required and which in service is effective for the purpose intended.

The drawing illustrates a preferred embodiment of the invention; however, it is to be understood that in adapting the same to meet different conditions, various changes in the form, proportion, and minor details of construction may be resorted to without departing from the nature of the invention as claimed hereinafter.

Referring to the drawing hereto attached: —

Figure 1 is a view in elevation of a tuning pin polisher embodying the invention.

Fig. 2 is a sectional detail of the end of the tool provided with the polishing head.

Fig. 3 is an end view of the tool, the handle being omitted.

Corresponding and like parts are referred to in the following description and indicated in the several views of the drawing by like reference characters.

The tool comprises a stem 1 which is provided at one end with a handle 2 and at its opposite end with a polishing head, the latter comprising a sleeve 3 and a plug 4, the latter closing one end of the sleeve 3 and being secured to the stem 1. The several parts are readily detachable to admit of the tool being reduced to compact form for convenience of carrying and storing. The handle 2 consists of a rod or bar having enlargements 5 at its ends and passing through an opening formed in a head 6 detachably connected to the stem 1 and retained in place thereon by means of a binding screw 7 threaded into an opening formed laterally in a side of the head 6. One end of the head 6 has an opening extending partway therein to receive the stem 1, the latter being retained in position by means of the screw 7.

The plug 4 has a recess 8 in one end in which is fitted an end of the stem 1 which latter is retained in place by means of a pin 9 passing through registering openings formed in the stem 1 and recessed end of the plug 4. The outer end of the plug 4 has a conical socket 10 formed therein into which a portion of the polishing cloth 11 shown by dotted lines in Fig. 2 is adapted to be crowded. A binding screw 12 is threaded into a side of the plug 4 and is adapted to retain the sleeve 3 in position, said sleeve being notched at its upper end as indicated at 13 to receive a portion of the screw 12, thereby holding the sleeve against turning when the tool is in operation.

The sleeve 3 snugly fits the plug 4 and its projecting end is formed with a plurality of slots 14 which are preferably enlarged at their inner or upper ends as indicated at 15, the purpose being to receive portions of the polishing cloth and retain the latter in engagement with the sleeve so that the tool may be removed from a tuning pin and withdraw the polishing cloth with it.

Referring to Fig. 2 the dotted line 16 indicates the upper portion of a tuning pin and the dotted line 11 designates the polishing cloth. As shown the polishing cloth embraces the upper end of the pin and is pressed thereby into the outer end of the sleeve 15, the portion of the polishing cloth adjacent the plug 4 entering the socket or depression 10. The folds or puckers of the polishing cloth enter the slots 14 and the enlargements 15 thereof, certain folds wedging into the enlargements 15 of the slots and thereby retaining the polishing cloth in position whereby upon removing the tool from a tuning pin the polishing cloth will be withdrawn from the pin with the tool. In the use of the tool the polishing cloth is placed over the tuning pin after which the tool is adjusted so that the end of the sleeve 15 engages the cloth opposite the pin. Pressure is exerted upon the tool to cause the pin

to enter the sleeve 3 and press a portion of the polishing cloth into the sleeve after which the tool is oscillated by means of the handle 2 thereby polishing the pin and the end portion of the string or wire wound thereon. It is to be understood that the operation may be facilitated by applying a suitable abrading material or other substance or polishing medium to the polishing cloth.

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

A tuning pin polisher, comprising a stem, a plug recessed in opposite ends, one of the recessed ends receiving an end of the stem, a pin securing the stem to the plug, a sleeve having an end portion notched and slipped upon the plug and having its opposite end formed with slots which are enlarged at their inner ends to receive the folds of a polishing cloth, and a screw on the plug entering the notch of the sleeve to retain the latter in place.

In testimony whereof I affix my signature in presence of two witnesses.

WILLIAM B. ELLSWORTH.

Witnesses:

DAISY CORBUS,

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