J. F. HOY AND J. C. WHITESELL, JR.

HAND PLANER.

APPLICATION FILED JUNE 30, 1921.

1,432,860.

Patented Oct. 24, 1922.

2 SHEETS—SHEET 1.

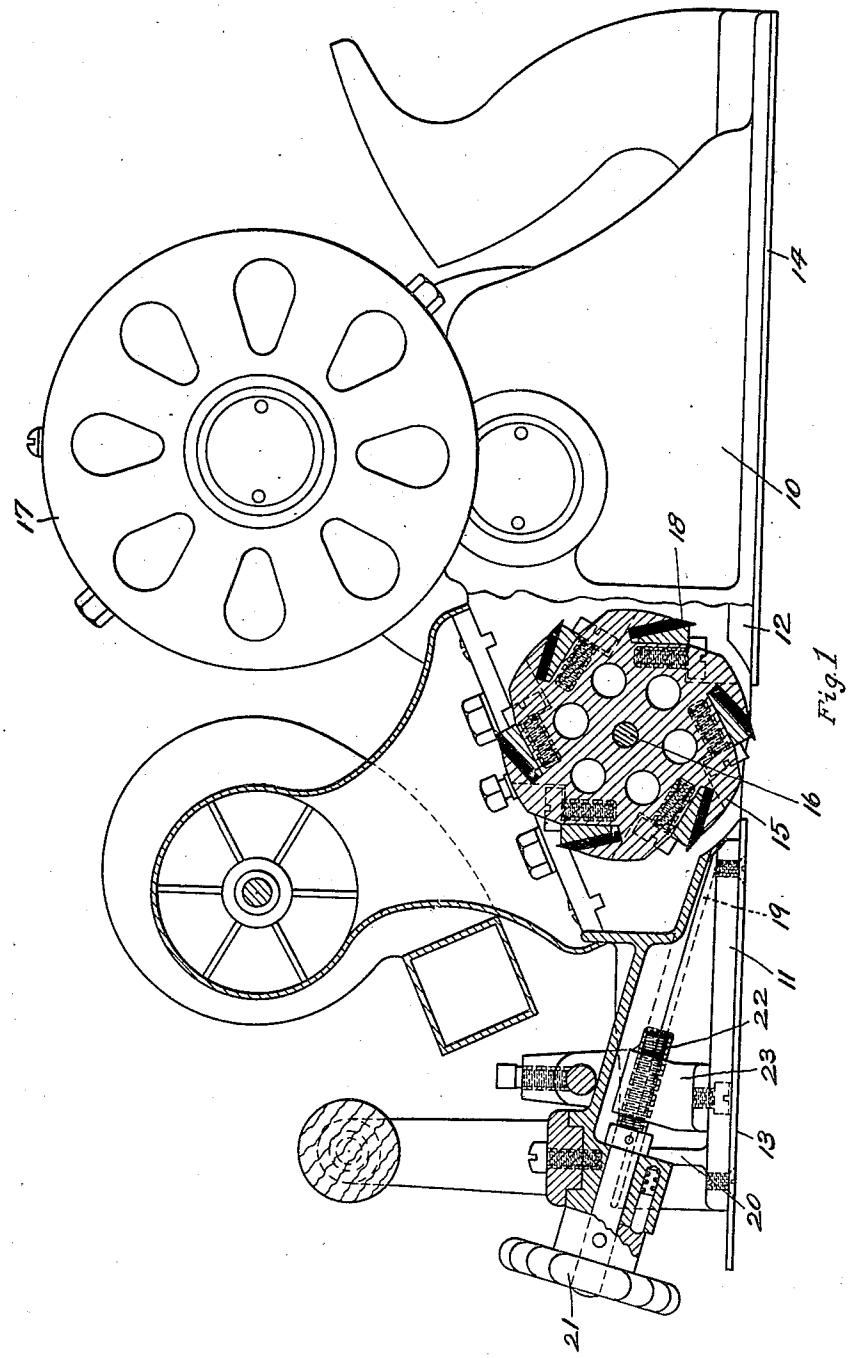


Fig. 1

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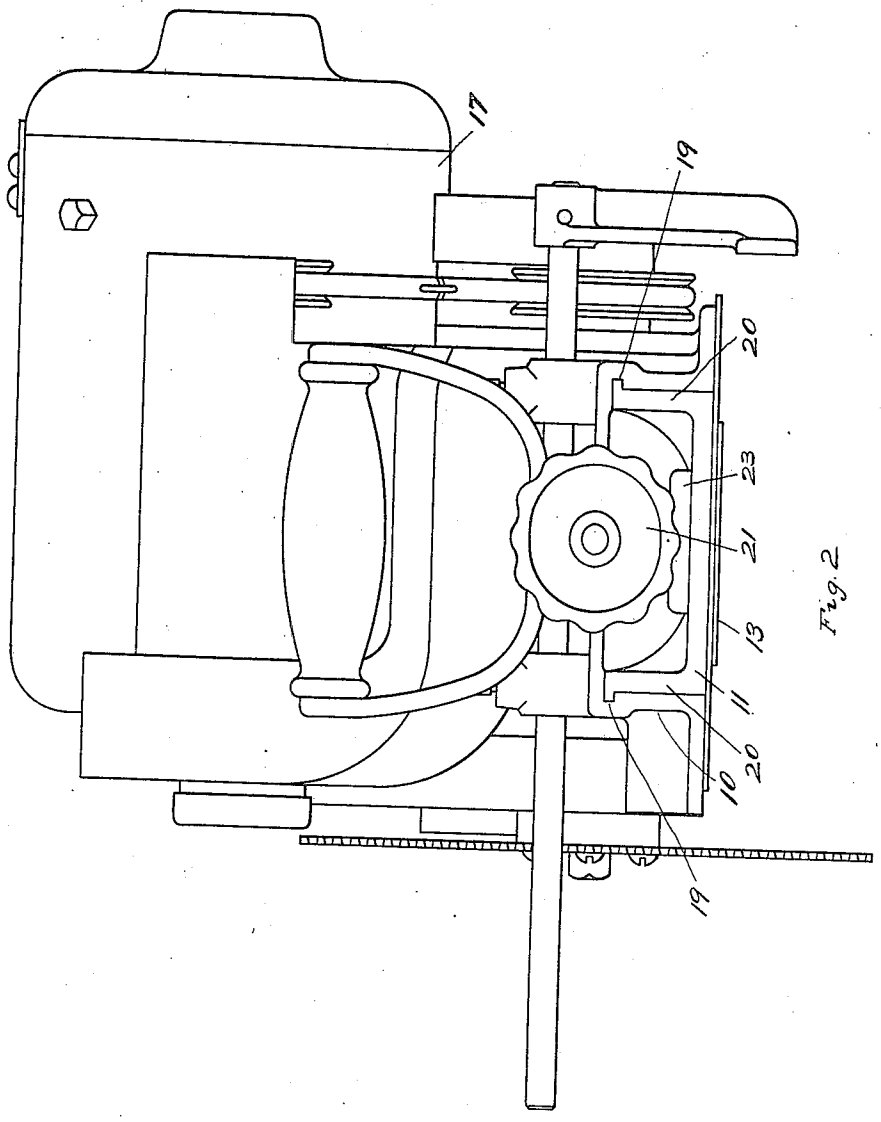


Fig. 2

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Patented Oct. 24, 1922. 1,432,860

UNITED STATES PATENT OFFICE.

JOHN F. HOY AND JOHN C. WHITESELL, JR., OF NORRISTOWN, PENNSYLVANIA, ASSIGNORS TO THE LUSTER-JORDAN COMPANY, OF NORRISTOWN, PENNSYLVANIA, A CORPORATION OF PENNSYLVANIA.

HAND PLANER.

Original application filed August 7, 1919, Serial No. 315,986. Divided and this application filed June 30, 1921. Serial No. 481,678.

To all whom it may concern:

Be it known that we, JOHN F. HOY and JOHN C. WHITESELL, Jr., citizens of the United States, residing at Norristown, county of Montgomery, State of Pennsylvania, have jointly invented certain new and useful Improvements in Hand Planers, of which the following is a specification, the same being a division of our application for Letters Patent filed August 7, 1919, and serially numbered 315,986.

This invention relates to the type of planer shown and described in Letters Patent No. 1,281,207 and has for its leading object to improve the mouth piece construction thereof so as to commercially better this type of planer. Other and further objects relate to the provision of certain new and novel arrangements, connections and combinations of parts for attaining the ends sought by said leading object.

The invention consists of the improvements hereinafter described and finally claimed.

The nature, characteristic features and scope of the invention will be more fully understood from the following description taken in connection with the accompanying drawings forming part hereof, and in which:

Fig. 1, is a longitudinal sectional view of a planer embodying features of the invention, and

Fig. 2, is an end view of Fig. 1, viewed from the left hand side.

For the purpose of illustrating our invention, we have shown in the accompanying drawings one form thereof which is at present preferred by us, since the same has been found in practice to give satisfactory and reliable results, although it is to be understood that the various instrumentalities of which our invention consists can be variously arranged and organized and that our invention is not limited to the precise arrangement and organization of the instrumentalities as herein shown and described.

In the drawings 10 designates the supporting frame of the planer the two-part central base of which is designated 11—12, the part 11 being movable with respect to part 12. The function of the movable base part is to regulate depth of cuts as will be hereinafter more fully described. The base as a whole is flat from end to end of the planer and said base parts have fixed thereto rigid shoes designated 13—14 respectively. The base parts are spaced from one another to provide an opening in which operates a cutter 15 fixed to a driven shaft 16. Rotary motion is imparted to said shaft through the instrumentality of a train of gear wheels interposed between said shaft and an electric motor 17. The shaft 16 is so mounted with respect to frame 10 as to be capable of being adjusted in a substantially vertical manner to compensate for wear of the knives 18 of the rotary cutter. A description will now be given of means for adjusting the movable base part toward and away from the rotary cutter for obtaining different depths of cuts. The forward portion of the frame of the planer is provided with grooved ways 19, see Fig. 2, which incline downwardly toward the cutter. Adapted to track in such grooved ways are the uprights 20 of the movable base part, which as shown in said figure is substantially U-shaped in cross-section. Rotatably mounted in the frame of the planer is a hand wheel 21 provided with a screw-threaded stem 22 which engages a nut 23 fixed to the movable base part. By adjusting the movable base part along the said incline toward the rotary cutter the sole of said base part may be caused to lie in the same plane with the sole of the fixed base part so that practically no cut may be effected. By proper adjustments in the opposite direction the sole of the movable base part is caused to lie in planes above the plane of the fixed sole so that cuts of different depths may be effected. The adjustments may be effected while the planer is in operation.

It will now be apparent that we have jointly devised a novel asd useful construction which embodies the features of advantage enumerated as desirable in the statement of the invention and the above description and while we have in the present instance shown and described the preferred embodiment thereof which has been found in practice to give satisfactory and reliable results, it is to be understood that the same is susceptible of modification in various particulars without departing from the spirit

or scope of the invention or sacrificing any of its advantages.

What we claim is:—

1. In a planer the combination of a frame, a fixed base part, a cutter mounted in said fixed base part, grooved ways disposed in said frame which ways are located in advance of and inclined toward said cutter, a movable base part provided with a fixed nut and with a U-shaped member capable of movement along said grooved ways, and a screw mounted in said frame for engaging said nut whereby adjustment of said screw moves the movable base part along said ways to and from the plane of the fixed base part.

2. In a planer the combination of a frame, a fixed base part, a cutter mounted in said fixed base part, grooved ways disposed in said frame which ways are located in advance of and inclined toward said cutter, a member of U-shaped cross-section capable of movement along said grooved ways, a nut removably secured to said member, a member rotatable in said frame one end of which is provided with a handle and the other end of which is screw-threaded for engaging said nut, a collar between said handle and fixed base part, a collar between said fixed base part and said nut and means for securing said collars to said member for preventing endwise movement thereof.

In testimony whereof we have hereunto signed our names.

JOHN F. HOY.
JOHN C. WHITESELL, JR.