T. C. SHEEHAN.

MACHINE FOR TRUING HONING WHEELS.

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1,075,227.

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Fig. 1

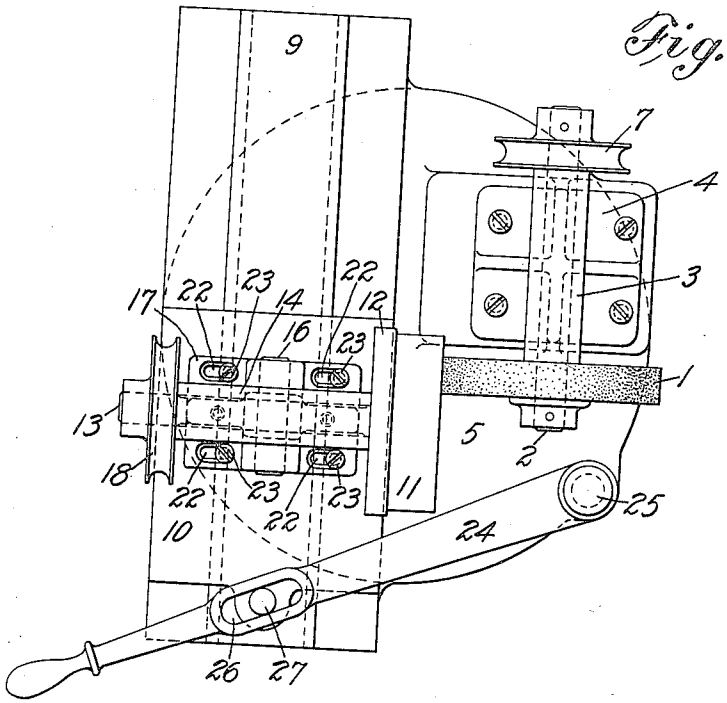
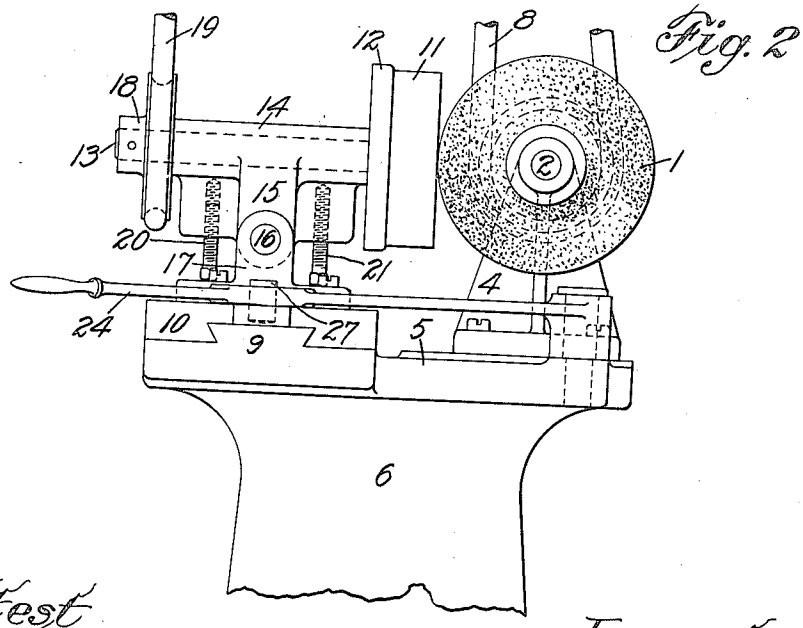


Fig. 2



Attest

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UNITED STATES PATENT OFFICE.

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MACHINE FOR TRUING HONING-WHEELS.

1,075,227. Specification of Letters Patent. Patented Oct. 7, 1913.

Application filed June 30, 1910. Serial No. 569,722.

To all whom it may concern:

Be it known that I, THOMAS C. SHEEHAN, a citizen of the United States, residing at Jersey City, county of Hudson, and State of New Jersey, have invented a new and useful Improvement in Machines for Truing Honing-Wheels, of which the following is a specification.

This invention relates to a machine for truing honing wheels of the type used in machines employed in finishing thin replaceable razor blades.

The primary object of the invention is the production of a machine capable of truing honing wheels without disturbing the mount of the wheel and without disconnecting its operating mechanism.

Another object is to provide a machine having a special fixture adapted solely to support and hold a particular type of honing wheel during the truing operation.

With these and other objects not specifically mentioned in view, the invention consists in certain constructions and combinations which will be hereinafter fully described and then specifically set forth in the claims hereunto appended.

In the accompanying drawings which form a part of this specification and in which like characters of reference indicate the same parts, Figure 1 is a plan view of a device constructed in accordance with the invention, and Fig. 2 is a side elevation of the structure shown in Fig. 1.

In carrying the invention into effect, there is provided a grinding wheel 1 of suitable abrasive material. This wheel is fixed upon one end of a shaft 2 journaled in a bearing 3 carried by a bracket 4 screwed or otherwise fastened upon a table 5 formed at the upper end of a pedestal 6. A pulley 7 is fixed upon the end of the shaft 2 opposite the grinding wheel 1, and this pulley is driven, by means of a belt 8, from any suitable source of motion, such for instance as an overhead line shaft, not shown.

The table 5 is provided with a slideway 9 upon which is slidably mounted a fixture 10. This fixture is adapted solely to support and hold a particular type of honing wheel with its operating mechanism. This particular type of honing wheel includes a stone wheel 11, which is permanently fixed in a holder 12. This holder is provided with a shaft 13 journaled in a bearing 14 formed in a tilting frame 15 pivoted at 16 to a bracket 17. The end of the shaft 13 opposite the honing wheel is provided with a pulley 18 operated by a belt 19, not only in the present machine but also in a honing machine. Adjusting screws 20, 21 are provided for regulating the tilting action of the frame 15. The bracket 17 is provided with a series of slots 22 in its base, through which a series of screws 23 are passed to secure the bracket upon its support. The same screws are used to fasten the bracket in position in the present machine that are used to secure it in position in a honing machine. It may be here remarked that a large number of honing wheels are used in the manufacture of blades, and that these wheels must be kept in perfectly true condition, otherwise, irregular honing actien will result. Consequently, the wheels must be frequently trued, and it is highly desirable that little time be lost in this operation. For this reason, among others, it is desirable that the honing wheels be trued without disturbing their mounts and without disconnecting their operating mechanism, which in the present case includes the pulley 18. The slots 22 and screws 23 provide means whereby the honing wheel to be trued may be adjusted toward or away from the grinding wheel 1.

Means are provided for producing a relative movement of the grinding wheel and fixture carrying the honing wheel and its connections, whereby the face of the honing wheel is trued, and this means may vary in construction. In certain constructions, both may be moved. As shown, however, the fixture is moved past the grinding wheel, which operates in a fixed position. This movement is produced by means of a lever 24 fulcrumed at 25 to the table 5 and provided with a slot 26 engaging a pin 27 fast in the fixture 10.

In the operation of the device, the honing wheel with its mount is screwed to the fixture and its operating belt is thrown over an overhead line shaft not shown, so that the honing wheel will be rotated during the truing operation. The grinding wheel is constantly rotating, preferably in a direction opposite the direction of rotation of the honing wheel. The fixture is then moved back and forth past the grinding wheel until the face of the honing wheel has been trued, after which the honing

wheel with its connections may be bodily transferred to a honing machine.

Changes and variations may be made in the structure by means of which the invention is carried into effect. The invention, therefore, is not to be restricted to the precise details of the structure shown and described.

What is claimed is:

1. In a machine for truing honing wheels, the combination with a grinding wheel operating in a fixed position, of a table supporting the grinding wheel, a slideway formed in the table adjacent the grinding wheel, a fixture arranged to slide on the slideway, a series of screws for holding a honing wheel assembled with its operating mechanism on the fixture and in contact with the grinding wheel, and means for moving the fixture on the slideway past the grinding wheel whereby the face of the honing wheel is trued by the grinding wheel.

2. In a machine for truing honing wheels, the combination with a grinding wheel operating in a fixed position, of a table supporting the grinding wheel, a slideway formed in the table adjacent and parallel with the axis of the grinding wheel, a fixture arranged to slide on the slideway, a series of screws for holding a honing wheel assembled with its operating mechanism on the fixture and in contact with the grinding wheel, and means for moving the fixture on the slideway past the grinding wheel whereby the face of the honing wheel is trued by the grinding wheel.

3. In a machine for truing honing wheels, the combination with a grinding wheel operating in fixed position, of a table supporting the grinding wheel, a slideway formed in the table adjacent and parallel with the axis of the grinding wheel, a fixture arranged to slide on the slideway, a series of screws for holding a honing wheel assembled with its operating mechanism on the fixture and in contact with the grinding wheel, and means including a lever for moving the fixture on the slideway past the grinding wheel whereby the face of the honing wheel is trued by the grinding wheel.

4. In a machine for truing honing wheels, the combination with a grinding wheel operating in a fixed position, of a table supporting the grinding wheel, a slideway formed in the table adjacent and parallel with the axis of the grinding wheel, a fixture arranged to slide on the slideway, a stud carried by the fixture, a series of screws engaging the fixture for holding a honing wheel assembled with its operating mechanism on the fixture and in contact with the grinding wheel, and a lever fulcrumed on the table and engaging the stud for moving the fixture past the grinding wheel whereby the face of the honing wheel is trued by the grinding wheel.

In testimony whereof, I have signed my name to this specification in the presence of two subscribing witnesses.

THOMAS C. SHEEHAN.

Witnesses:
SYDNEY I. PRESCOTT,
FRANK H. VICK, Jr.