

No. 874,583.

PATENTED DEC. 24, 1907.

J. GARRET.
TRACING IMPLEMENT.
APPLICATION FILED APR. 3, 1907.

Fig. 1.

Fig. 5.

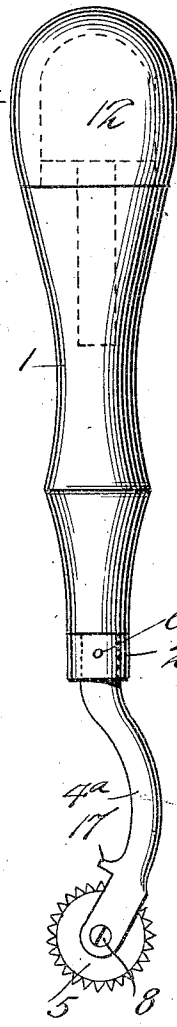
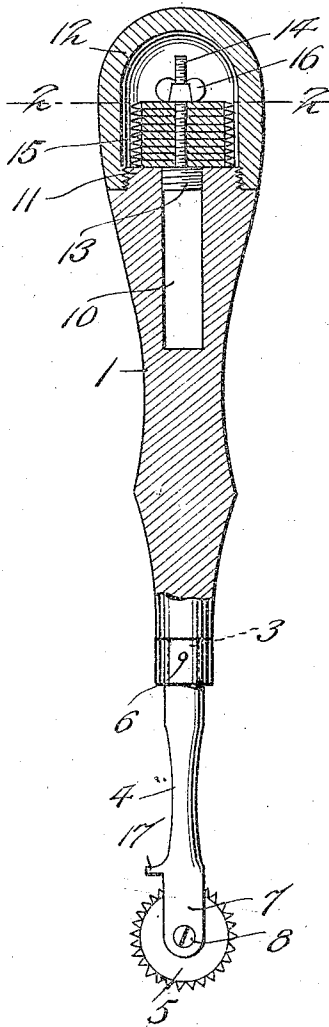


Fig. 2.

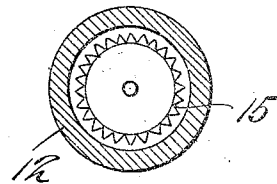


Fig. 4.

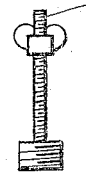
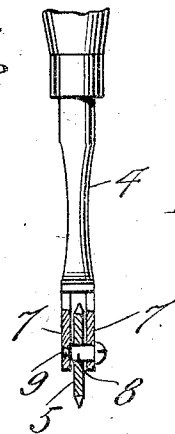


Fig. 3.



Inventor

Jean Garret

Witnesses

G. C. Hines
E. C. Hines

By

Victor J. Evans

Attorney

UNITED STATES PATENT OFFICE.

JEAN GARRET, OF PITTSBURG, PENNSYLVANIA.

TRACING IMPLEMENT.

No. 874,583.

Specification of Letters Patent.

Patented Dec. 24. 1907.

Application filed April 3, 1907. Serial No. 366,236.

To all whom it may concern:

Be it known that I, JEAN GARRET, a citizen of the United States of America, residing at Pittsburg, E. E., in the county of Allegheny and State of Pennsylvania, have invented new and useful Improvements in Tracing Implements, of which the following is a specification.

This invention relates to improvements in implements of that kind commonly known as "tracing wheels", the object of the invention being to provide a device of this character having a hollow handle forming a chamber or reservoir for needles and the like and provided with a closure for said reservoir having means for supporting a plurality of tracing wheels normally concealed within a cap forming the butt of the handle, and further to provide means for conveniently applying and removing a wheel to and from the shank of the tool, so that a damaged wheel may be conveniently detached and a new wheel removed from the holder and conveniently substituted in its place.

The preferred form of the invention is illustrated in the accompanying drawing, in which:—

Figure 1 is a vertical longitudinal section through the tool. Fig. 2 is a cross section on line 2—2 of Fig. 1. Fig. 3 is an elevation of the shank detached from the handle. Fig. 4 is a detail view of the combined stopper and wheel supporting device. Fig. 5 is a side elevation, showing a modification.

Referring to the drawing, 1 designates a handle of suitable form provided at its lower end with a receiving socket and ferrule 2 to receive the angular bit or upper end 3 of a shank 4, which is bifurcated or divided at its lower end to receive the tracing wheel 5, as is common in devices of this character. The bit 3 is adapted to be slipped into the socket and is fastened in position with the ferrule by a securing pin 6. The arms 7 of the forked or bifurcated portion of the shank are apertured to receive a journal pin 8 on which the wheel 5 is revolvably mounted, one end of said pin being reduced and threaded, as at 9, to engage the opening of the arm in which it fits to secure said pin in position. The pin has a nicked head to adapt it to be applied and removed by an ordinary screw driver. The shank 4 in Fig. 1 is straight while the shank 4" shown in Fig. 5 is lowered or curved.

The handle is formed with a chamber 10

opening through its upper end, which latter is provided with an externally threaded flange 11 for the application of an internally threaded hollow head or cap 12. The chamber 10 forms a reservoir for needles and the like and is closed at its upper end by a screw plug or stopper 13, from which extends an upwardly projecting threaded stem 14 housed within the cap 12. On this stem may be arranged a desired number or supply of tracing wheels 15, through the openings in which the stem extends, said stem being provided with a clamping nut 16 to secure the wheels in position. The adjustability of the nuts enables any desired number of the wheels to be held, and the latter are concealed and protected from injury by the cap 12. When it is desired to get access to the chamber 10 the holder as an entirety may be turned to release the stopper 13, as will be readily understood, which stopper may be as readily applied in position to close the chamber. When the tracing wheel in use becomes bent or otherwise injured one of the wheels 15 within the cap may be detached from the holder after removing the cap and substituted in an obvious manner in its place.

It will thus be seen that the invention provides a simple, convenient and efficient device for the purpose stated.

The shank 4 is provided above its bifurcated portion with a projecting lug 17 forming a finger rest to prevent the hand of the operator from slipping on the shank and the finger from coming in contact with the toothed surface of the wheel and being injured.

Having thus described the invention, what is claimed as new, is:—

1. A device of the character described comprising a handle having a chamber therein opening through the upper end thereof, a closure for said chamber carrying a support for tracing wheels, and a cap applicable to the handle to inclose the support.

2. A device of the character described comprising a handle, a supporting stem upon the upper end of the handle, securing means associated with the stem, and a cap upon the handle inclosing said stem.

3. A device of the character described comprising a handle, a screw stem supported by the upper end of the handle and adapted to carry a series of tracing wheels. means for

confining the wheels upon the stem, and a cap applicable to the handle to inclose said stem and the wheels supported thereby.

4. A device of the character described comprising a handle, a supporting stem upon the upper end of the handle, a clamping nut carried by the stem, and a cap removably mounted on the handle and inclosing the stem.

10 5. A device of the character described comprising a handle having a chamber therein, a stopper closing the chamber, a screw stem projecting from the stopper, a nut upon the stem to clamp a series of tracing wheels
15 thereon, and a cap detachably mounted on the handle and inclosing the stem.

6. A tracing device comprising a handle; a shank supported by the handle and having a

forked end, a tracing wheel journaled between the arms of the fork, and a finger rest 20 upon the shank in line with the space between the fork arms and overhanging the periphery of the tracing wheel.

7. A tracing device comprising a handle, a shank projecting from the lower end of the 25 handle, a tracing wheel journaled on the shank, and a forwardly projecting finger rest arranged directly on the shank and forming a guard or shield directly overhanging the periphery of the wheel. 30

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

JEAN GARRET.

Witnesses:

A. L. STEWART,
ELEANOR M. BOOTH.