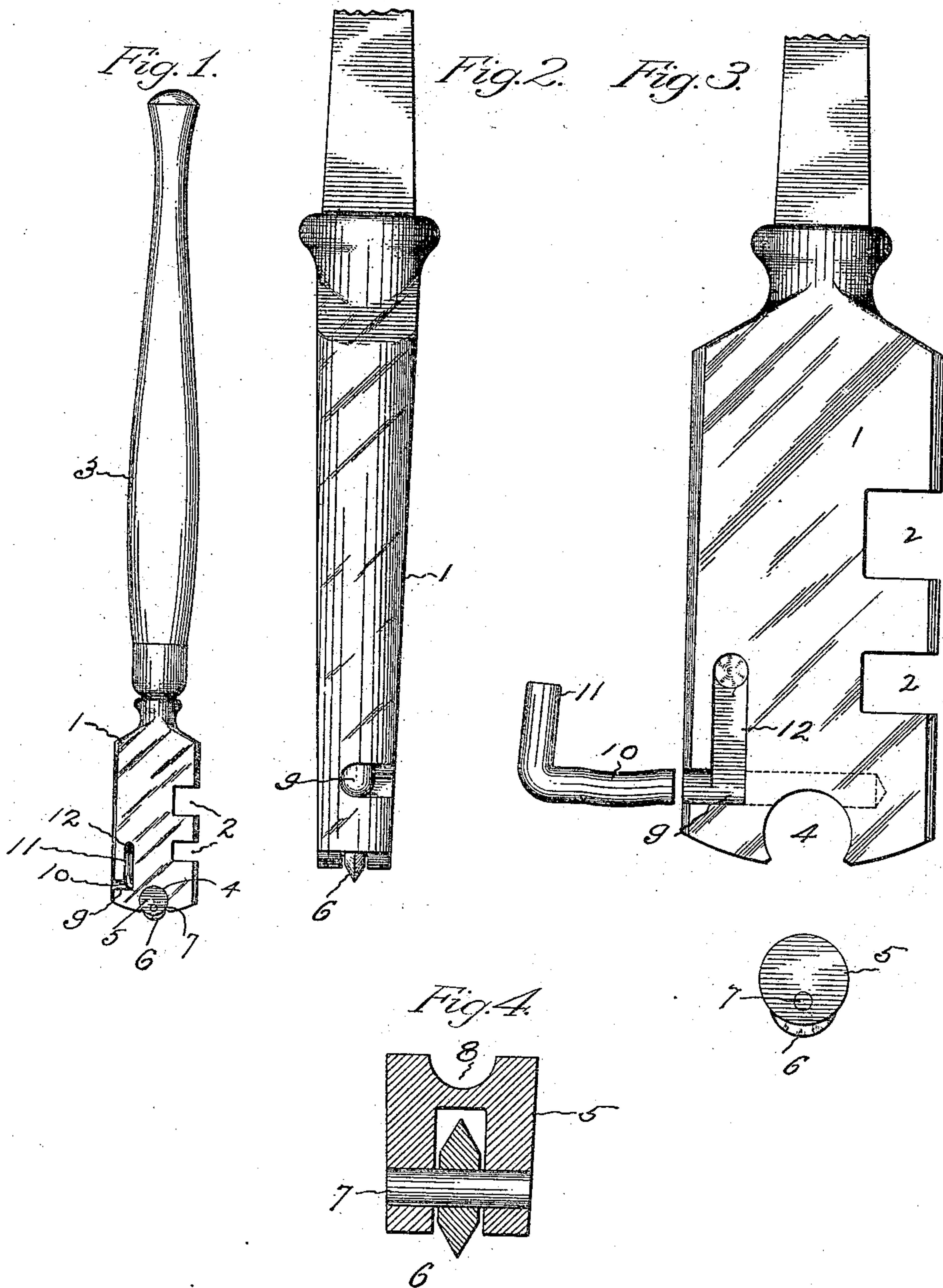


No. 820,092.

PATENTED MAY 8, 1906.

B. A. BROWN.  
GLAZIER'S TOOL.  
APPLICATION FILED APR. 14, 1905.



Witnesses.

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# UNITED STATES PATENT OFFICE.

BERT A. BROWN, OF BRISTOL, CONNECTICUT.

## GLAZIER'S TOOL.

No. 820,092.

Specification of Letters Patent.

Patented May 8, 1906.

Application filed April 14, 1905. Serial No. 255,521.

*To all whom it may concern:*

Be it known that I, BERT A. BROWN, a citizen of the United States, residing at Bristol, in the county of Hartford and State of Connecticut, have invented a new and useful Glazier's Tool, of which the following is a specification.

This invention relates to a glazier's tool which has a hardened-steel cutting-roll removably held in the head.

The object of the invention is to provide a tool of this character which is very cheap to manufacture, simple to assemble, durable in use, and easy to repair.

In the head of the tool which is illustrated as embodying the invention is a circular socket containing a circular housing which supports a cutting-roll, the housing being locked in position by a pin having a shank that is turned down into a slot in the face of the head.

Figure 1 of the accompanying drawings shows a side view of a tool which embodies the invention. Fig. 2 shows an edge view of the head with the cutter in place. Fig. 3 shows a side view of the head with the cutter-housing and holding-pin removed, and Fig. 4 shows a section of the housing and cutter.

The head 1 of this tool may be cast or pressed to shape of any desirable metal with the usual glass-breaking grooves 2 and may be fastened to a handle 3, preferably made of wood, in the ordinary manner. In the end of the head is a circular socket 4, and fitting in this socket is a circular housing 5, which may be formed on a screw-machine or may be stamped to shape. This housing is slotted transversely, and in the slot between the sections of the housing is a hardened-steel roll 6. This roll is held in position by an arbor 7, on which it turns freely.

In one edge of the cylindrical housing is a groove 8. A hole 9 is drilled from one edge into the head in line with the groove in the housing. The housing containing the roll is thrust sidewise into the socket in the end of the head, and then the pin 10 is thrust into the pin-hole in the head and groove in the housing, so as to hold the housing in place. The section of the pin where it passes through the groove in the housing is preferably flattened or bent so as to form a slight cam that when the pin is turned on its axis tends to force the housing outwardly in its socket and bind it perfectly tight. The bent shank 11 of the pin, by means of which it is thrust into

the hole and turned on its axis when in position, turns down into a slot 12 in the face of the head, so as to leave no projection beyond the surface of the head. It is preferred to bend this end of the pin a little more than the angle which the slot in the face makes with relation to the pin-hole, so that when the end is turned down into the slot it will be sprung, and thus tightly held in position.

The parts of this tool are very simple to manufacture, and it is easy to assemble the roll in the housing and place the housing, with the roll, in the head. The cutting-roll is firmly and strongly held in the head by this housing, and when the cutting-roll becomes dull the pin can be turned up and drawn out, so as to allow the housing, with the dulled roll, to be removed. A new housing with a sharp roll can then be inserted and quickly fastened in place by the same pin. The rolls and housing are very cheap to furnish, and as the rolls are fixed in the housings at the factory they are always adjusted in such way as to obtain the best results and to have the longest life. With this tool there are no projecting parts or parts which are liable to become loose and lost, so that the device may be readily carried in the pocket and be always ready for use.

The invention claimed is—

1. A glazier's tool having a head with a socket extending through one end, a housing with its peripheral wall fitting and supported by the wall of the socket, a single cutting-roll carried by the housing, and a pin holding the housing in the socket, substantially as specified.

2. A glazier's tool having a head with a circular socket extending through one end, a circular housing with its peripheral wall fitting and supported by the wall of the socket, a single cutting-roll carried by the housing, and a pin holding the housing in the socket, substantially as specified.

3. A glazier's tool having a head with a socket extending through one end, a housing with its peripheral wall fitting and supported by the wall of the socket, a single cutting-roll carried by the housing and a pin adapted to be thrust into the head for holding the housing and to be turned over for tightening the housing in its socket, substantially as specified.

4. A glazier's tool having a head with a socket in one end and a slot in one face, a housing occupying the socket, a cutting-roll

carried by the housing, and a pin adapted to be thrust into the head for holding the housing and to be turned down into the slot so that it will not project above the face of the head, substantially as specified.

5 5. A glazier's tool having a head with a socket in one end and a slot in one face, a housing occupying the socket, a cutting-roll carried by the housing, a pin extending into  
10 the head and holding the housing in place, and a cam on the pin for tightening the housing in its socket, substantially as specified.

6. A glazier's tool having a head with a

socket in one end and a slot in one face, a housing occupying the socket, a cutting-roll 15 carried by the housing, a pin extending into the head and holding the housing in the socket, said pin having a shank that is bent at an angle greater than the angle of the slot with relation to the pin-hole so that when the 20 end of the pin is turned into the slot it will be bound in position, substantially as specified.

BERT A. BROWN.

Witnesses:

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