

(No Model.)

W. H. SCOTT.
PICK.

No. 563,722.

Patented July 7, 1896.

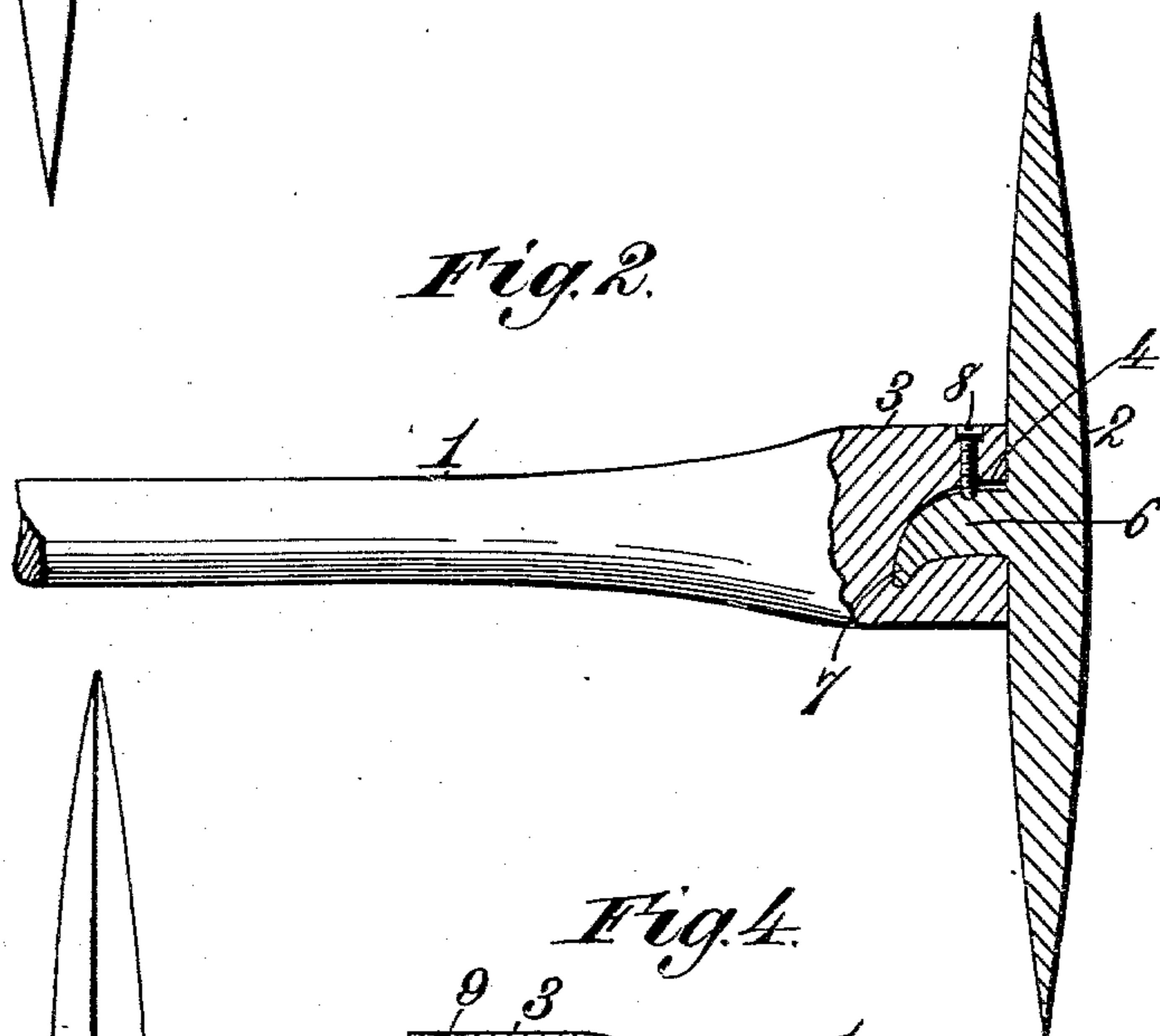
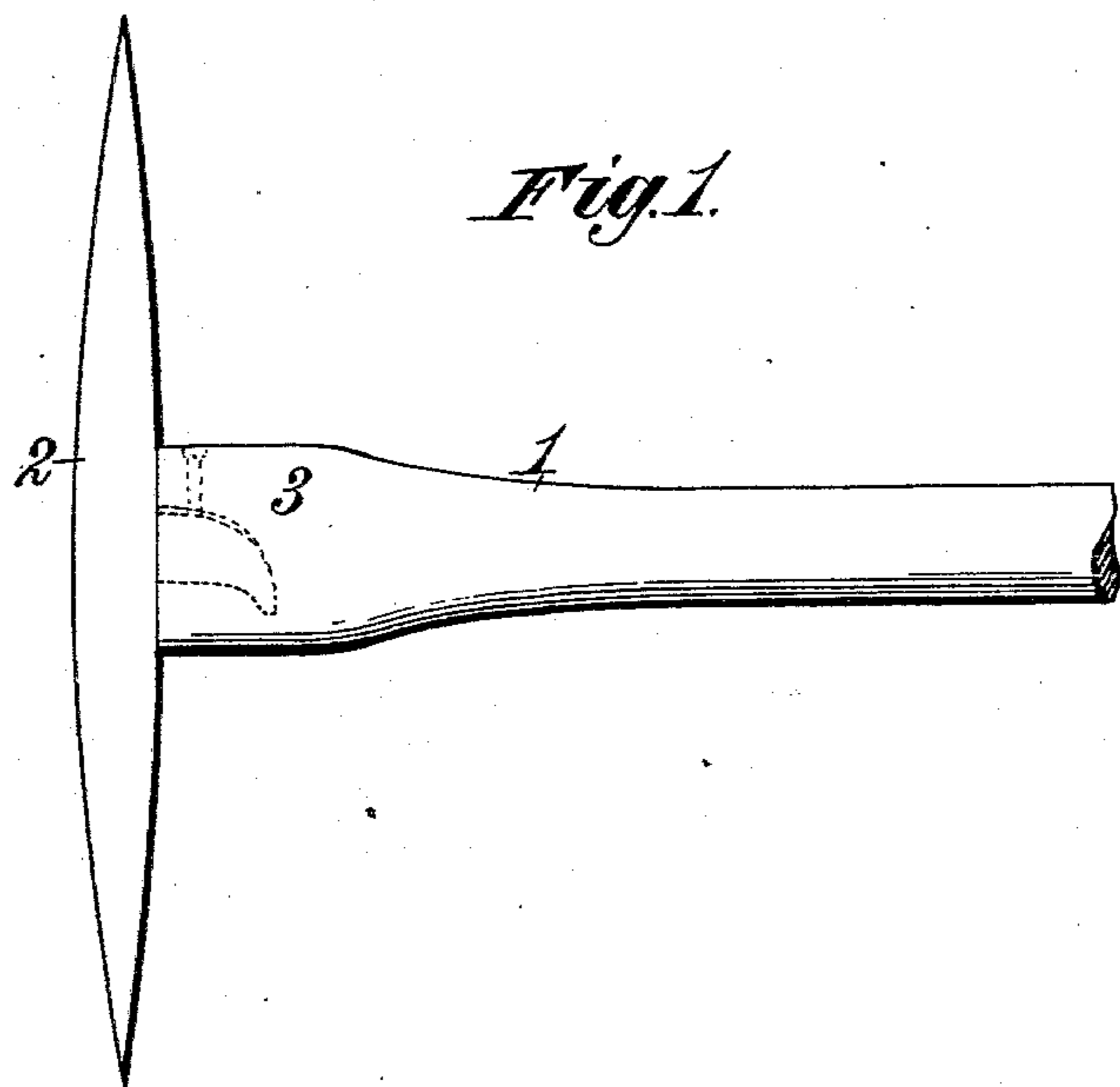


Fig. 3.

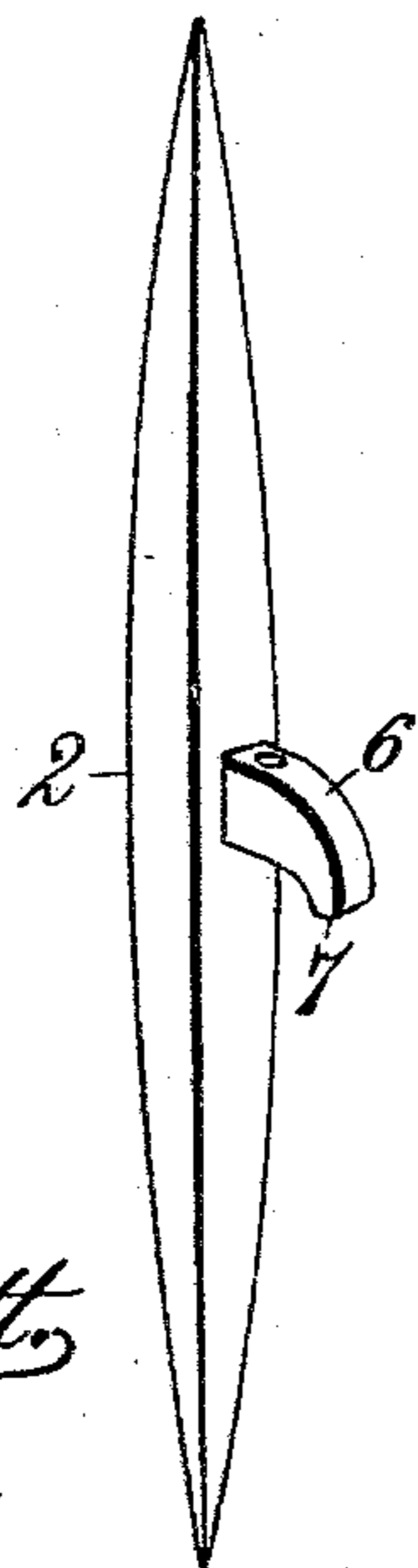


Fig. 4.

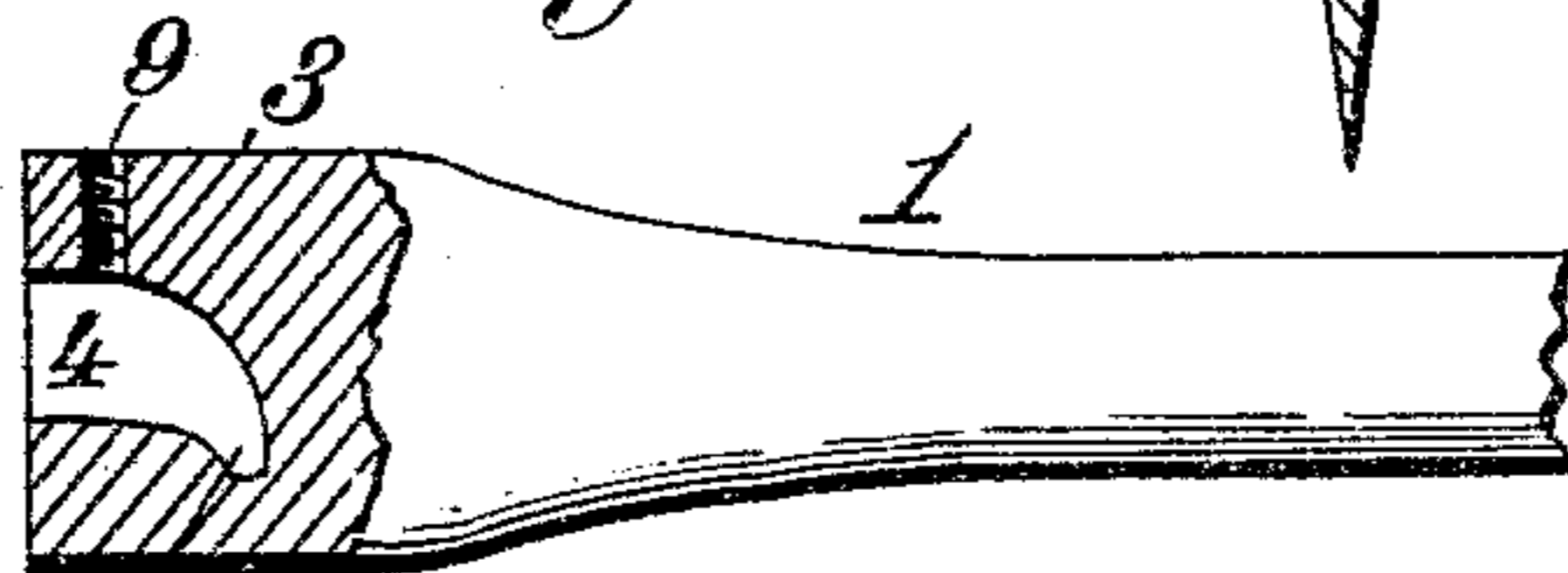


Fig. 5.



Witnesses.
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UNITED STATES PATENT OFFICE.

WILLIAM HARTY SCOTT, OF WHAT CHEER, IOWA.

PICK.

SPECIFICATION forming part of Letters Patent No. 563,722, dated July 7, 1896.

Application filed March 2, 1896. Serial No. 581,538. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM HARTY SCOTT, a citizen of the United States, residing at What Cheer, in the county of Keokuk and State of Iowa, have invented new and useful Improvements in Picks, of which the following is a specification.

This invention relates to picks designed for cutting coal, rock, and salt, and for railroad and other work in general.

The object of my invention is to provide new and improved means for detachably connecting picks with their handles, whereby a single handle will serve for a large number of picks and the parts can be separated and compactly packed or stored to facilitate transportation, while the parts, when connected together for practicable use, will be strong, durable, and efficient.

The object of my invention is accomplished in the manner and by the means hereinafter described and claimed, reference being made to the accompanying drawings, in which—

Figure 1 is a side elevation of my improved pick with a portion of the pick-handle broken away. Fig. 2 is a sectional side elevation. Fig. 3 is a detail perspective view of the pick. Fig. 4 is a detail sectional view of the end of the handle to which the pick is detachably secured, and Fig. 5 is a detail view of the locking-pin for detachably locking the pick in engagement with the socket of the pick-handle.

In order to enable those skilled in the art to make and use my invention, I will now describe the same in detail, referring to the drawings, wherein—

The numeral 1 indicates a pick-handle, which may be made of any desired material, but which is preferably made of wood in the usual manner. The handle is enlarged or widened at one end portion and constructed or provided in any suitable manner and by any suitable means with a socket 4, extending longitudinally and formed angular in cross-section. This socket, in the present example, is shown formed in the wood of the pick-handle, but I do not confine myself to this particular construction. The inner end of the socket 4 is provided with a laterally-extending recess or undercut portion 5.

Instead of punching or otherwise forming

an eye at the center of the pick I forge or otherwise provide the pick with a permanent and rigid or immovable shank 6, and construct or form the extremity of this shank with a laterally-projecting foot-piece or lug 7, all in such manner that the shank can be inserted into the angular socket 4, and the foot-piece or lug 7 caused to enter into engagement with the lateral recess or undercut portion 5. The socket 4 should be made of sufficient dimensions to permit the shank 6 to be inserted therein, and subsequently shifted laterally to cause the lug 7 to engage the recess or undercut portion 5. The shank 6 is rigidly but detachably confined in the socket 4, with the lug 7 lying in the recess or undercut portion 5, through the medium of a set-screw or screw bolt or pin 8, adapted to screw into a transversely-arranged screw-threaded orifice 9, suitably provided at the end portion of the pick-handle in proper relation to the socket 4, so that the inner end of the set screw or pin can be caused to bear against one side of the angular shank 6, and thus retain the latter in the socket, the construction being such that the lateral lug 7, engaging the lateral recess or undercut portion 5, effectually prevents the possibility of the shank moving longitudinally in an outward direction, while the inner end of the screw bolt or pin bearing against the angular shank prevents movement thereof in the lateral direction, which would disengage the lug 7 from the recess or undercut portion 5.

The screw bolt or pin is shown constructed similar to an ordinary metal screw, so that when screwed into position its outer end may lie approximately flush with the surface of the enlarged head of the handle; but I do not wish to be understood as confining myself to this particular kind of a screw bolt or pin, as the latter may be made of such length that it will slightly project from the head of the handle when screwed into position to engage the shank of the pick and hold the same within the socket.

The screw bolt or pin can be tightened up from time to time if, by shocks or wear, the shank should become slightly loose in the socket.

The angular shank is preferably square in cross-section to correspond with the cross-section of the socket.

tion of the socket; but, as before stated with reference to the socket, the angular shape may be modified without altering the spirit of my invention.

5 The angular form of the shank and socket effectually prevent the possibility of the pick turning on the end of the handle, and the lateral lug or foot-piece of the shank, engaging the lateral recess or undercut portion at the
10 inner end of the socket, holds the shank from outward displacement when the screw bolt or pin is engaged with one side of the shank, as before explained.

15 It will be obvious that the pick can be readily removed and replaced, and that the construction described and shown is light, compact, simple, durable, and economical; and, further, that it is unnecessary to provide the pick with a central eye, as is usual in ordi-
20 nary picks, so that the central portion, in which the pick-eye is ordinarily formed, is rendered stronger and more substantial, and, instead of being a weak point, is, in fact, a strong point.

25 By my invention an ordinary wooden handle may be utilized in connection with a large number of picks, as obviously the construction of parts shown and described renders it possible to conveniently and quickly detach
30 one pick and attach another pick if desired or necessary.

Another advantage attained by my simple construction is that when a pick becomes blunt it can be disconnected from the socket
35 and another pick, with sharpened points, secured in position by simply operating the set-screw or screw-bolt, which is in screw-threaded engagement with the transversely-arranged screw-threaded orifice, and therefore will not

likely be accidentally detached or lost or mis- 40
laid, as will occur where a wedge or key is driven longitudinally or otherwise into a socket in a handle to secure the shank of a tool therein.

Having thus described my invention, what 45
I claim is—

1. The combination of a pick having a shank formed centrally between its extremities and constructed with a laterally-extending foot-
piece or lug, with a pick-handle having a 50
transversely-arranged, screw-threaded orifice and a socket provided with a lateral recess or undercut portion, and an adjustable screw-bolt engaging said screw-threaded orifice and bearing against the shank of the pick for re- 55
taining the latter in the socket and in engagement with the lateral recess or undercut part thereof, substantially as described.

2. The combination of a pick-handle having an angular socket extending longitudinally 60
thereof and provided at its inner end with a lateral recess or undercut portion, a pick having an immovable central shank angular in cross-section, and provided with a laterally-
projecting lug or foot-piece, and a screw bolt 65
or pin engaging the handle and bearing against the shank for retaining the latter in the socket and in engagement with the lateral recess or undercut portion thereof, substan-
tially as described. 70

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

WILLIAM HARTY SCOTT.

Witnesses:

FRED FUNK,
WILLIAM DOLLER.