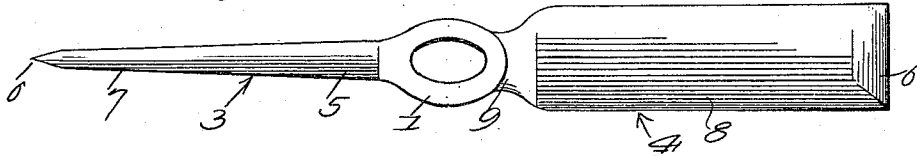


P. N. FORSYTH.  
TRENCH TOOL.  
APPLICATION FILED DEC. 29, 1917.

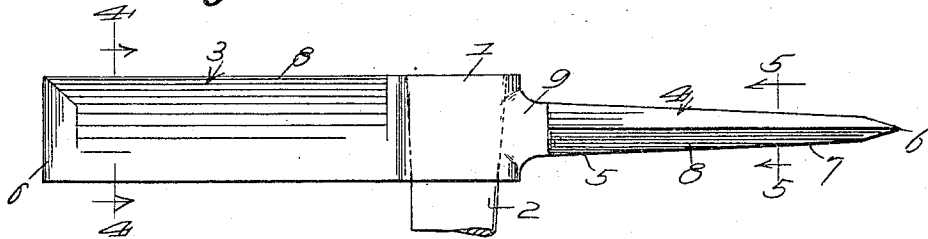
1,277,894.

Patented Sept. 3, 1918.

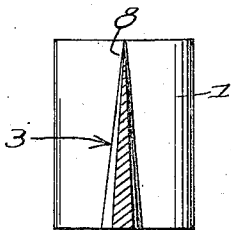
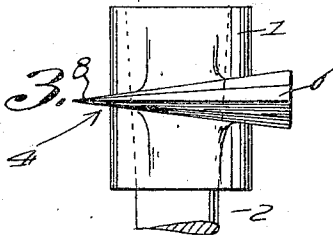
*Fig. 1.*



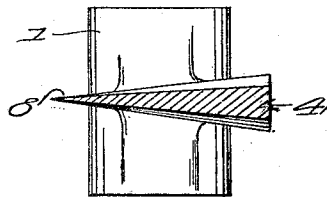
*Fig. 2.*



*Fig. 3.*



*Fig. 4.*



*Fig. 5.*

Inventor

*Peter N. Forsyth,*

By

*C. Hume Talbot*

Attorney

# UNITED STATES PATENT OFFICE.

PETER N. FORSYTH, OF PORTLAND, OREGON.

## TRENCH-TOOL.

1,277,894.

Specification of Letters Patent.

Patented Sept. 3, 1918.

Application filed December 29, 1917. Serial No. 209,444.

### *To all whom it may concern:*

Be it known that I, PETER N. FORSYTH, a citizen of the United States of America, residing at Portland, in the county of Multnomah and State of Oregon, have invented new and useful Improvements in Trench-Tools, of which the following is a specification.

The present invention has reference generally to improvements in tools and more particularly relates to a trench tool.

It is the primary aim and object of the present invention to provide a device of the above character designed for use in digging trenches and in reality embodies in itself an ax, mattock, hoe and pick.

It is an equally important object of the present invention to provide a device of the above character the construction of which is novel and is capable of being mounted on a handle and conveniently manipulated.

Among the other aims and objects of this invention may be recited the provision of a device of the character described with a view to compactness, and in which the number of parts are few, the construction simple, the cost of production low and the efficiency high.

Other improvements and novel details in the construction and arrangement of the various parts of the apparatus will be brought out more in detail in the description to follow, which for a clear understanding of the invention should be considered in connection with the accompanying drawing forming a part hereof, and wherein is disclosed for the purpose of illustration, a convenient and satisfactory embodiment of the invention. It is to be noted in this connection that minor changes in the construction and arrangement of parts may be made without departing from the principle of operation of the various parts.

The invention is clearly illustrated in the accompanying drawings, in which:—

Figure 1 is a top plan view of the invention;

Fig. 2 is a side elevation thereof;

Fig. 3 is an end elevation of the invention;

Fig. 4 is a transverse section taken on line 4—4, of Fig. 2;

Fig. 5 is a transverse section taken on line 5—5, of Fig. 2.

Similar characters of reference are em-

ployed in all the above described views, to indicate corresponding parts.

Referring now, more particularly, to the accompanying drawing, there is provided the improved tool embodying an eye 1 designed for detachably receiving a handle 2 while projecting in opposite directions from the eye are blades 3 and 4 both of which are tapered toward their outer ends as indicated by the numeral 5, while the extreme outer ends are beveled to provide cutting edges 6. The blades 3 and 4 are also tapered toward their upper edges as at 7 while the upper edges are in turn sharpened as at 8. Subsequent to sharpening the tool it is desired that the blade 4 be heated and twisted as at 9 and arranged in a plane at right angles to the plane of one blade 3 thus disposing the sharpened edge 8 on one side of the tool as indicated. This blade 4 is capable of being used in the capacity of a mattock, hoe or pick while the blade 3 may be used in the capacity of an ax or as a pick. It is apparent therefore that the structure provides in effect a combination tool while the cutting edges 6, 7 and 8 are so positioned that they may be effectively brought into use when the operator desires to make a peculiar stroke or cut. The device would also be useful in lumber camps; by farmers, miners, prospectors, etc.

If desired, instead of twisting the blade 4 the same may be arranged in the first instance in a plane at right angles to the plane of the blade 3, this of course depending on the mode of manufacture.

It is believed that in view of the foregoing description, a further detailed description of the operation of the invention is entirely unnecessary. Likewise it is believed that the advantages of the invention will be readily apparent.

As many changes could be made in the above construction and many apparently widely different embodiments of this invention could be made without departing from the scope thereof and it is intended that all matter contained in the above description or shown in the accompanying drawings shall be interpreted as illustrative and not in a limited sense. It is also to be understood that the language used in the following claim is intended to cover all the generic and specific features of the in-

vention herein described and all statements of the scope of the invention which as a matter of language might be said to fall therebetween.

5 Having thus described the invention what is claimed as new and desired to be secured by Letters Patent is:—

10 A device of the character described including an eye, a handle detachably engageable with the eye, opposed blades project-

ing in opposite directions from the eye and integral therewith and tapered from the eye toward their outer ends, the outer edges being sharpened, the blades being also tapered transversely and sharpened at their re- 15 stricted marginal edges, and one of the blades being twisted and arranged in a plane at right angles to the other blade.

In testimony whereof I affix my signature.

PETER N. FORSYTH.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."