

A. WEED.

File.

No. 68,584.

Patented Sept. 3, 1867.

Fig. 1.

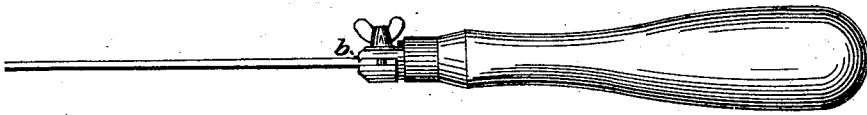


Fig. 2.



Witnesses:
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United States Patent Office.

ALFRED WEED, OF BOSTON, MASSACHUSETTS.

Letters Patent No. 68,584, dated September 3, 1867.

IMPROVEMENT IN FILES.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, ALFRED WEED, of Boston, in the county of Suffolk, and State of Massachusetts, have invented an improved Manufacture of Files; and I do hereby declare that the following, taken in connection with the drawings which accompany and form part of this specification, is a description of my invention sufficient to enable those skilled in the art to practise it.

In the manufacture of that class of files in which the teeth are arranged to cut or operate in but one direction, a tang has been forged upon or from the rear end of such files, for the purpose of securing handles thereunto, or else the material of the file itself has extended beyond the cuttings or teeth to a sufficient extent to be grasped by the hand of the operator, said extension being itself the handle of the file. In both of these cases an unnecessary amount of steel is used, or, rather, wasted, which in the aggregate is equivalent to the annual expenditure of a large sum of money. In the first of said cases the formation of the tang is the great difficulty in the way of substituting rolling for hammering in the production of file-blanks.

Tangs of files are seldom alike, especially tangs of files of different sizes, shapes, and makes, so that a workman has to be supplied with about as many handles as he has files. The tang, too, is often a source of danger to operatives, as many working engineers have had their hands perforated by file-tangs; these, from their wedge-like form, splitting their handles under the force exerted to propel the files forward while working with them.

My invention consists in a new article of manufacture, the same being a file with teeth arranged to cut in but one direction from the point to the heel of the entire file, when made without a tang, or without such an extension of its material as in itself shall constitute a handle, and which at its heel or rear end is formed to be grasped in the adjustable jaws of a handle. The drawings show, in

Figure 1, a side view of one of my new articles of manufacture, as grasped in the adjustable jaws of a handle, and in

Figure 2 a plan of said article.

The notch seen at the heel of the file fits upon the shank of the clamp-screw, and secures the file more reliably against lateral movement. Instead of the notch a slight protuberance might be made, this fitting into a notch at the rear of suitable grasping-jaws. To make the file still further secure in its holder against accidental movement of any kind, a groove may be formed in the file, as seen at *a*, into which fits a rib, as seen at *b*, formed on one of the grasping-jaws on the holder.

I claim as a new article of manufacture a file when made substantially as described.

ALFRED WEED.

Witnesses:

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