

A. DOW.

NAIL FILE.

APPLICATION FILED SEPT. 29, 1910.

379,398.

Patented Dec. 20, 1910.

Fig. 1.

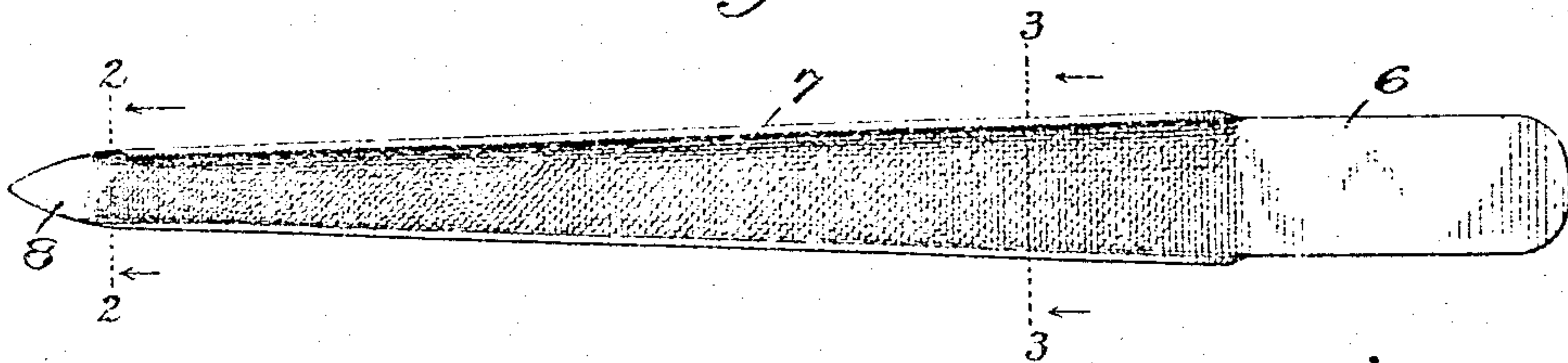


Fig. 2.



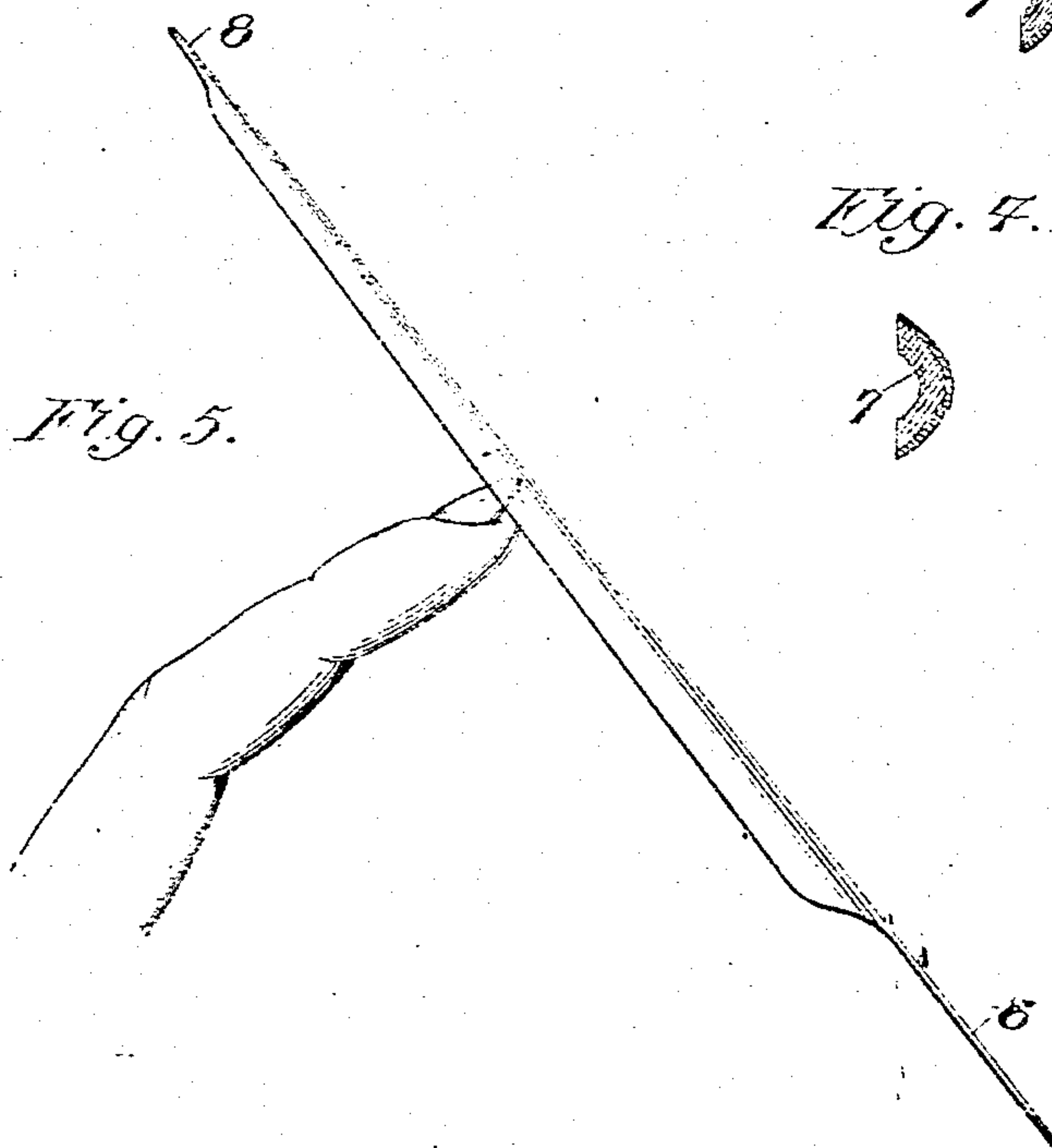
Fig. 3.



Fig. 4.



Fig. 5.



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# UNITED STATES PATENT OFFICE.

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NAIL-FILE.

979,398.

Specification of Letters Patent. Patented Dec. 20, 1910.

Application filed September 29, 1910. Serial No. 584,552.

*To all whom it may concern:*

Be it known that I, ALEXANDER DOW, residing at New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Nail-Files, of which the following is a specification.

My invention relates to an improvement in files for use in the manicuring of finger nails.

My invention consists in making a file having teeth cut on the concave side so that by drawing it over a surface a convex form is given to the object that is filed.

In order to produce a file capable of filing different curvatures, my improvement consists in making the file of different radii of curvature along its length, so that such a part of it can be used as is most desirable for producing the particular form wanted.

For use in manicuring finger nails, files have been manufactured with a flat surface, and in order to file a curve with implements so constructed, it is necessary to turn the file on the nail, and a considerable amount of skill is necessary to file the nail of symmetrical form.

In the file which is the subject of this invention, after the nail has been roughly formed with the edge of the file used in the same manner as if the file were flat, the implement is then turned, the nail fitted into the concave surface of the file and the file drawn at such an angle to the finger as will remove any irregularities and form the same to any particular desired curvature.

I do not intend to limit myself to a circular concave surface as the concavity can be made of such form as to produce a pointed nail if required.

Referring to the drawing wherein the same part is designated by the same reference numeral wherever it occurs, Figure 1 is a plan view of a file embodying my invention; Fig. 2 is a section on the line 2-2 showing the curvature of the file at this point; Fig. 3 is a section on the line 3-3 showing the curvature of the file on the line 3-3 as being of different radius than on the line 2-2; Fig. 4 is a modification of the section of the file on the line 3-3 showing the manner in which the concavity can be varied to form special shapes of nails; and Fig. 5 is a view

showing the manner of using the file to produce the curvature wanted.

6 designates the handle portion of the file and 7 the concave abrading portion which, in the form shown, terminates in the nail-cleaning portion 8. It is to be understood, however, that both the handle portion 6 and the nail-cleaning portion 8 may be omitted; if desired, the essential feature of my invention being the concave abrading section 7, the curve of which tapers from one end to the other of the file whereby the cross-sectional area of different portions of the file have different radii.

In Fig. 4 is illustrated a modified form of curve which is not circular in cross-section, but is so shaped as to produce a finger-nail more nearly pointed than the form illustrated in the other figures.

While I have illustrated a steel file having teeth cut on its concave surface, it is evident that any other abrading surface might be substituted for the teeth without departing from the spirit of my invention.

Having thus described my invention, what I claim as new and desire to secure by Letters Patent is:

1. A manicure file provided with a concave abrasive surface, the curve of said surface tapering from one end to the other of said file.

2. A manicure file having a concave abrading surface, said concave surface tapering from one end to the other of the length of the file.

3. A manicure file provided with a concave abrasive surface, the radial cross section of which decreases from one end to the other of said file.

4. A manicure file formed from a thin sheet of metal bent to form a concaved inner surface, and a convex outer surface, the radial cross section of which decreases from one end to the other thereof, the convex surface being smooth and having an abrasive surface formed on the concaved surface.

5. A manicure file formed at one end into a flat handle portion, one surface of the metal beyond the handle having an abrading surface thereon, and said metal beyond the handle being concaved with the radial cross section of said concave portion decreasing from the handle to the point.



6. A manicure file having a concave abr- ing surface tapering from one end to the other of the file and terminating in a nail- cleaning point.
- 5 7. A file for manicure and other purposes, formed from a long narrow thin sheet of steel, bent longitudinally to form a con- caved inner side, and a convex outer side, the concaved side having thereon an abrasive surface, substantially as described.

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

ALEXANDER DOW.

Witnesses:

HELEN KINNEY,  
ALEXANDER FORSTEIN.