

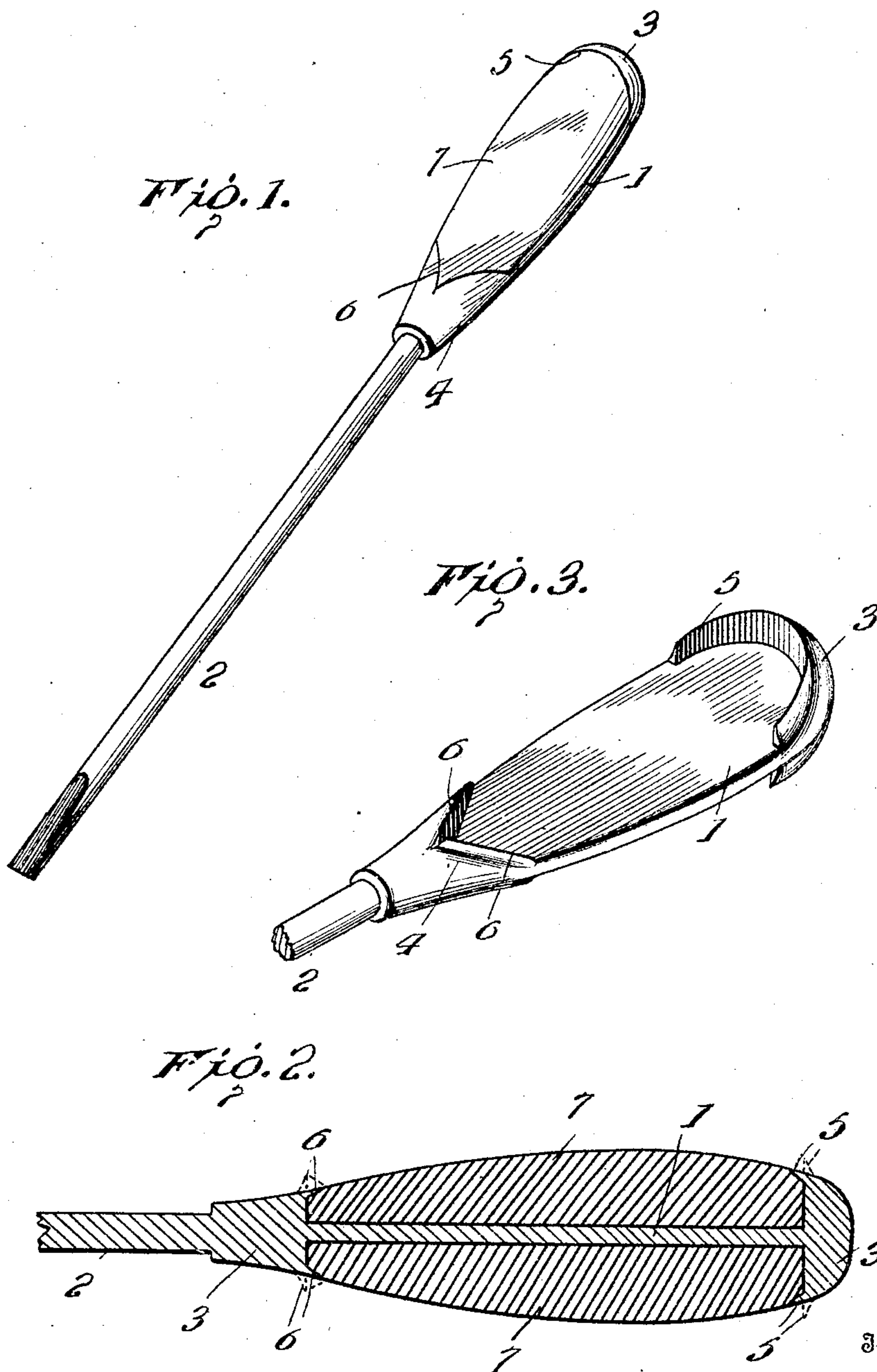
No. 835,149.

PATENTED NOV. 6, 1906.

A. R. ANDERSON.

TOOL HANDLE.

APPLICATION FILED DEC. 12, 1905.



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# UNITED STATES PATENT OFFICE.

ANDREW R. ANDERSON, OF BROOKLYN, NEW YORK.

## TOOL-HANDLE.

No. 835,149.

Specification of Letters Patent.

Patented Nov. 6, 1906.

Application filed December 12, 1905. Serial No. 291,468.

*To all whom it may concern:*

Be it known that I, ANDREW R. ANDERSON, a citizen of the United States, residing at Brooklyn, in the county of Kings and State of New York, have invented certain new and useful Improvements in Tool-Handles, of which the following is a specification.

This invention relates to handles for tools, the purpose being primarily to provide a substantial structure involving a minimum number of joints and parts and a non-metallic grip to avoid the weight and unpleasantness and injurious effects of metal grips.

The present invention contemplates a plate, non-metallic sides embracing the plate, bolsters at the ends of the plate, and bendable confining lips or flanges projected from the walls of the bolsters subjacent to the ends of the side pieces or scales of the handle and turned thereover to hold them in place and prevent anything from entering the joint formed between the bolsters and the said scales, said bolsters and confining-lips being integral parts of the plate.

For a full description of the invention and the merits thereof and also to acquire a knowledge of the details of construction of the means for effecting the result reference is to be had to the following description and accompanying drawings.

While the invention may be adapted to different forms and conditions by changes in the structure and minor details without departing from the spirit or essential features thereof, still the preferred embodiment is shown in the accompanying drawings, in which—

Figure 1 is a perspective view of a screw-driver provided with a handle embodying the invention. Fig. 2 is a longitudinal section of the handle, the dotted lines showing the confining-lips extended. Fig. 3 is a perspective view of the handle having the sides or scales omitted.

Corresponding and like parts are referred to in the following description and indicated in all the views of the drawings by the same reference characters.

In order to show a tool complete having a handle constructed in accordance with the invention, a screw-driver has been selected, since the invention is chiefly designed for tools of this type. It is preferred to have the essential part of the handle—that is, the plate

1—an integral part of the tool 2, although this is not essential.

The plate 1 may have any form, according to the special type of tool or implement for which designed, and is provided at opposite ends with bolsters 3 and 4, integral therewith, and from the inner walls of said bolsters project confining lips or flanges 5 and 6. These confining-lips also constitute an integral part of the plate and bolsters and are comparatively thin and tapered and are malleable, annealed, or otherwise treated to render them bendable, so as to be turned over the ends of the sides or scale 7. The inner walls of the bolsters 3 are curved, whereas the inner walls of the bolsters 4 are approximately of V form, the purpose being to prevent lateral displacement of the sides or scale 7 in the plane of the plate, outward displacement of said part 7 being prevented by the lips or flanges 5 and 6, which are bent to overlap the respective end portions of said sides or scales. The construction of the parts 1, 3, 4, 5, and 6 is such as to admit of the casing, forging, or stamping thereof, whereby they may constitute elements of a single device or structure.

The sides or scales 7 are preferably of wood, such as lignum-vitæ, or hard rubber, or other material. These sides or scales 7 conform approximately to the outline of the plate 1, and their ends are shaped to snugly abut against the inner walls of the respective bolsters, after which the lips or flanges 5 and 6 are bent so as to overlap the end portions of the sides or scales and retain them in place. When finished, the sides of the scales, bolsters, and confining-lips are flush, so as not to offer any projecting parts. The tapered formation of the confining lips or flanges results in a substantial jointure with the respective bolsters and prevents outward displacement of the said lips after once being bent so as to extend over the side pieces, as indicated by the full lines in Fig. 2.

From the foregoing it will be understood that the invention results in the provision of a handle possessing exceeding strength and durability, and which is free from a great number of joints, and which will preclude the possible displacement of the side pieces, since their end portions are housed and protected by the confining lips or flanges bent to extend thereover, thereby preventing checking and cracking of said side pieces at the ends,



which would otherwise occur if the same simply abutted against the walls of the bolsters after being held by overlapped confining-lips.

Having thus described the invention, what  
5 is claimed as new is—

1. A tool-handle comprising a plate having end bolsters, each provided with bendable lips or flanges in line with their inner walls, and side pieces fitted against the plate  
10 and between the bolsters and held in place by the aforesaid confining-lips which are bent to extend thereover.

2. In a handle for tools and the like, a plate provided at its ends with bolsters having  
15 bendable confining lips or flanges at the inner ends of said bolsters, the plate, bolsters and lips being of integral formation, and scales placed against opposite sides of the plate and held in place by the aforesaid lips or flanges  
20 which are bent to extend thereover.

3. In a handle for tools and the like, a plate

provided with integral bolsters and with integral confining lips or flanges in line with the inner walls of said bolsters and of tapered formation in cross-section, and scales placed  
25 against opposite sides of said plate and held in place by said confining-lips which are bent to extend thereover.

4. A tool having an integral plate, integral bolsters at the ends of the plate and integral  
30 confining lips or flanges aligned with the inner walls of said bolsters and of tapered formation in cross-section, and scales placed upon opposite sides of the plate and held in place  
35 by said confining-lips which are bent to extend thereover.

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

ANDREW R. ANDERSON. [L. s.]

Witnesses:

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BARNETT RASHIN.