(No Model.)

G. E. GAY & J. H. PARSONS.

SCREW DRIVER.

No. 292,298. Patented Jan. 22, 1884.

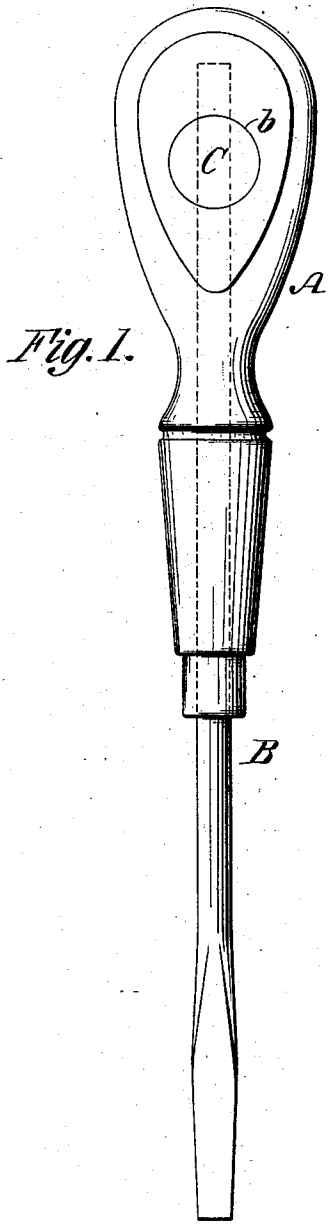


Fig. 1.

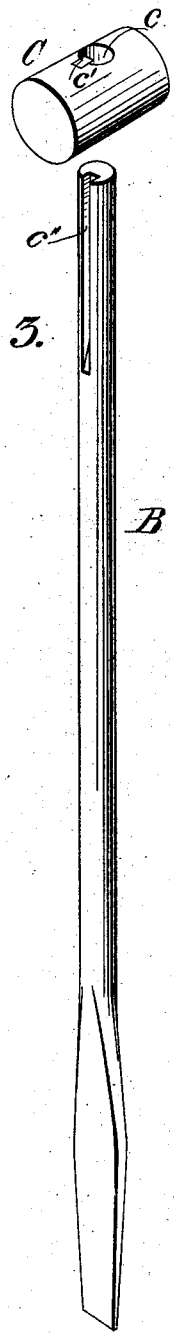


Fig. 3.

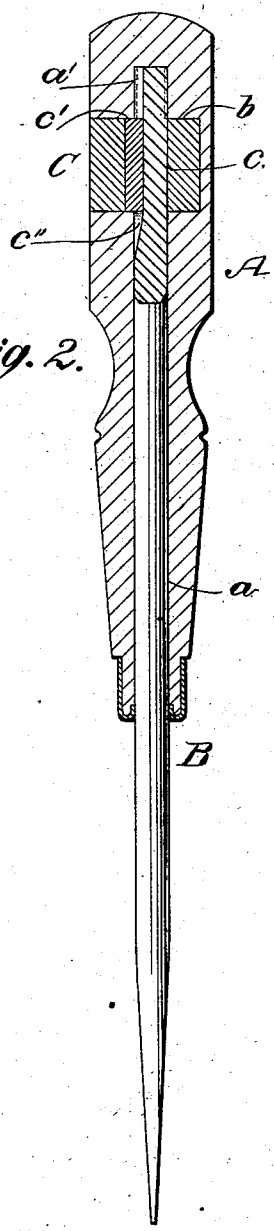


Fig. 2.

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UNITED STATES PATENT OFFICE.

GEORGE E. GAY AND JOHN H. PARSONS, OF AUGUSTA, MAINE.

SCREW-DRIVER.

SPECIFICATION forming part of Letters Patent No. 292,888, dated January 22, 1884.

Application filed May 17, 1883. (No model.)

To all whom it may concern:

Be it known that we, GEORGE E. GAY and JOHN H. PARSONS, of Augusta, in the county of Kennebec and State of Maine, have invented a new and Improved Screw-Driver, of which the following is a full, clear, and exact description.

This invention is an improvement upon that class of screw-drivers in which the blade is secured in the handle by means of a metallic plug placed in a transverse position in the handle, and has for its object to dispense with the flanges or screws in or upon such metallic plugs, thereby greatly simplifying and cheapening the construction of the screw-driver; and to this end the invention consists in the combination and arrangement of parts, substantially as hereinafter fully set forth and claimed.

Reference is to be had to the accompanying drawings, forming part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is a perspective view of our new and improved screw-driver. Fig. 2 is a longitudinal sectional elevation of the same, and Fig. 3 is a perspective view of the blade and plug removed from the handle.

The handle A of the screw-driver is bored axially, as shown at *a*, to receive the shank of the blade B, and is recessed, as shown at *b*, to receive the plug C, and the axial hole *a* is bored somewhat past the recess *b*, as shown at *a'*, where it is, by preference, made slightly smaller than in front of the recess, as shown in dotted lines in Fig. 2, so that the end of the shank, after passing through the hole *c* in the plug C, will have to be driven into said hole, thus causing the blade to be held in the handle with sufficient firmness. The hole *c* through the plug C might be angular or elliptical, or of any shape to lock with the shank of the blade B, for holding it from turning in the handle A; but we prefer to make the hole *c* round and supply it with the key *c'*, and to form the shank of the blade with the groove *c''* to receive the key, and thus cause the plug to retain the blade.

By constructing the shank of the blade B to pass through the plug C into the extended portion *a'* of the axial hole in the handle, it will be seen that the shank of the blade effectually locks the plug C in the recess without extra means or attachments, and thus both cheapens and improves the construction of the screw-driver.

Having thus described our invention, we claim as new and desire to secure by Letters Patent—

In a screw-driver, the handle A, having the recess *b* and axial hole *a*, reaching past its recess, as at *a'*, said extended portion *a'* being made smaller than the hole *a*, in combination with the blade B, having the longitudinal groove *c''* in its shank, plug C, having an aperture, *c*, and key *c'*, substantially as and for the purpose set forth.

GEORGE E. GAY.
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