No. 654,588. Patented July 31, 1900.

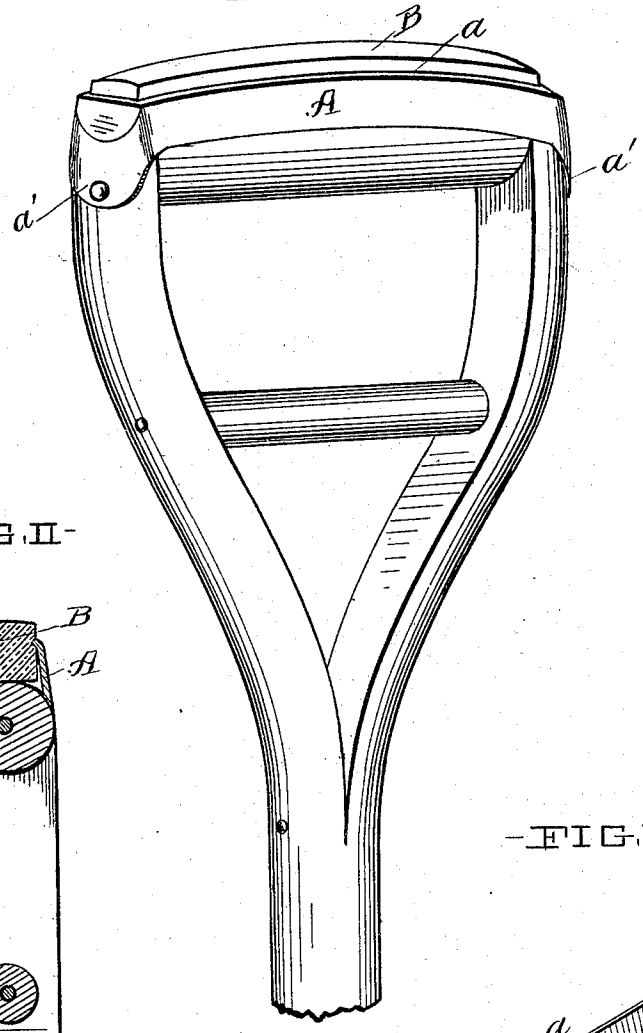
H. R. ATWATER.

TOOL HANDLE.

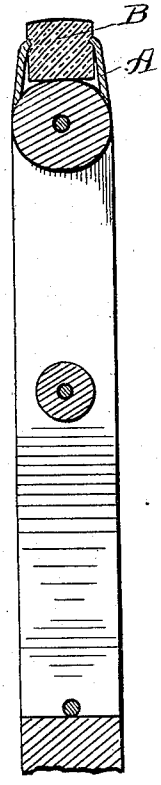
(Application filed Dec. 11, 1899.)

(No Model.)

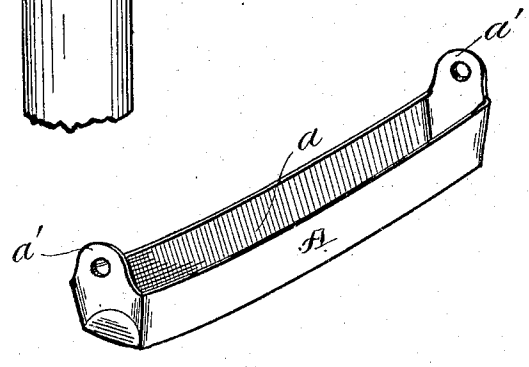
-FIG. I-



-FIG. II-



-FIG. III-



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THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

HARRY R. ATWATER, OF CLEVELAND, OHIO, ASSIGNOR TO THE OSBORN MANUFACTURING COMPANY, OF SAME PLACE.

TOOL-HANDLE.

SPECIFICATION forming part of Letters Patent No. 654,588, dated July 31, 1900.

Application filed December 11, 1899. Serial No. 739,872. (No model.)

To all whom it may concern:

Be it known that I, HARRY R. ATWATER, a citizen of the United States, and a resident of Cleveland, county of Cuyahoga, and State of Ohio, have invented a new and useful Improvement in Tool-Handles, of which the following is a specification, the principle of the invention being herein explained and the best mode in which I have contemplated applying that principle, so as to distinguish it from other inventions.

My invention relates to an attachment for tool-handles, and particularly to handles of tools for molders' use.

Said invention consists of means hereinafter fully described.

The annexed drawings and the following description set forth in detail certain means embodying the invention, such disclosed means constituting but one of various mechanical forms in which the principle of the invention may be used.

Figure I represents a perspective view of my invention, illustrating its application to a shovel-handle. Fig. II represents a cross-section thereof, and Fig. III represents part of said attachment detached from the handle.

A clip A, of inelastic metal, preferably malleable iron, is formed with a longitudinal opening *a* in its central portion and with two downwardly-extending lateral lugs *a' a'*, the distance between said lugs measured upon their inner surfaces being made equal to the width of the extremity of the handle to which the attachment is to be applied. The inner longitudinal walls of the opening are made to slightly converge, as shown in Fig. II, whereby the upper edges thereof are caused to form two jaws. Such clip is placed upon the handle end, as shown, the lugs *a' a'* projecting upon the lateral surfaces thereof, as shown, and secured thereon by means of rivets or screws. In said opening *a* is placed a peen B, made of rubber or similar soft elastic material and of dimensions such as to neatly fit therein. The lower surface of said peen is caused to rest upon the handle extremity, and its depth is made such as to cause its upper surface to project some distance from its clip, said upper surface being preferably of curved formation, as shown. To secure the peen firmly in the opening, the two previously-described jaws formed upon the upper edges of the longitudinal surfaces are pressed or driven toward each other, and thus caused to embed themselves a short distance into the rubber, the inelasticity of the malleable iron permitting such position to be permanently held. The whole structure is thereby securely united and forms a tamping-tool for molders' use. The soft peen formed by the rubber makes this tool especially adaptable for use in tamping around delicate or easily-defaced patterns, the liability of damage to such patterns during the operation being reduced to a minimum. The peen may be removed with facility and replaced when necessary, as is readily seen.

Other modes of applying the principle of my invention may be employed instead of the one explained, change being made as regards the mechanism herein disclosed, provided the means covered by any one of the following claims be employed.

I therefore particularly point out and distinctly claim as my invention—

1. A tool-handle provided at its extremity with a metal clip having a central opening and a peen of rubber or similar material secured therein, substantially as set forth.

2. A tool-handle provided at its extremity with a metal clip having a central opening provided with sides converging to form jaws, and a peen of rubber or similar material secured in said opening by said jaws, substantially as set forth.

3. A tool-handle provided at its extremity with an inelastic metal clip having a central opening, and a peen of rubber or similar material secured therein, substantially as set forth.

4. The combination of a tool-handle, a metal clip provided with projecting lateral lugs secured to the sides of said handle and formed with an opening, and a peen of rubber or similar material secured in said opening, substantially as set forth.

Signed by me this 2d day of December, 1899.

HARRY R. ATWATER.

Attest:

D. T. DAVIES,
A. E. MERKEL.