(No Model.)

J. E. GAITLEY.

FIRE POKER.

No. 381,356. Patented Apr. 17, 1888.

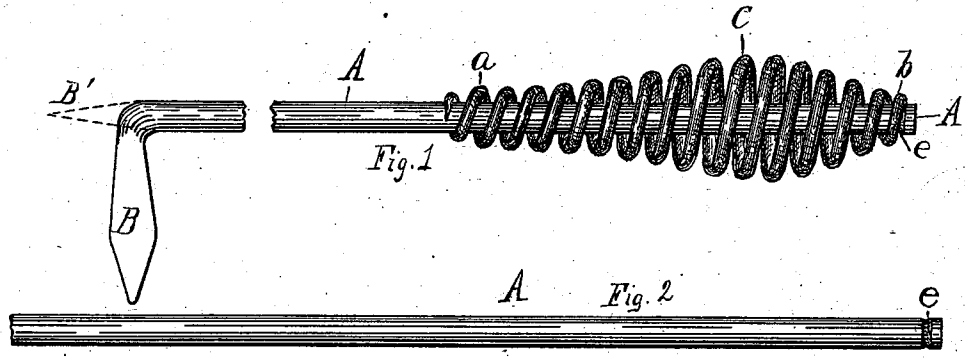
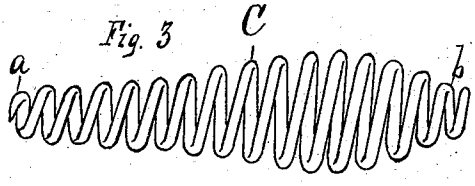


Fig. 1

Fig. 2

Fig. 3



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UNITED STATES PATENT OFFICE.

JOHN E. GAITLEY, OF TROY, NEW YORK.

FIRE-POKER.

SPECIFICATION forming part of Letters Patent No. 381,356, dated April 17, 1888.

Application filed December 31, 1885. Serial No. 187,262. (No model.)

To all whom it may concern:

Be it known that I, JOHN E. GAITLEY, a resident of the city of Troy, in the county of Rensselaer and State of New York, have invented certain new and useful Improvements in Fire-Pokers; and I do hereby declare that the following is a full, clear, and exact description of the invention, that will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

Similar letters refer to similar parts in the several figures therein.

My invention relates to improvements in fire-pokers; and it consists of the novel construction and combination of parts hereinafter described, and pointed out in the claim.

Figure 1 of the drawings is a plan view of my improved poker, the middle portion of the shank being broken away for convenience of illustration. Fig. 2 is a plan view of shank without the handle. Fig. 3 is a plan view of the wire handle detached.

One end of the shank A may terminate in a hook, B, or a point, B′, (shown by dotted lines in Fig. 1,) both forms being largely used for pokers, the other end being provided with a handle consisting of a helispherical coil of wire, C. The internal diameter of the coils at the end *a* of the handle is a little less than the diameter of the shank A, as appears from inspection of Fig. 4.

The shank is forced into the handle to the position shown in Fig. 1, the coils at *a* being forcibly enlarged thereby to receive the shank. The yielding spring-like nature of the coils, which permits of such enlargement, also causes them to grip the shank very firmly and securely retain the handle thereon, so that the handle will not work loose or revolve on the shank.

The end of the shank projects slightly through the other end, *b*, of the handle, and the end coil of the handle is bent down into a groove, *e*, in the end of the shank, whereby the shank is held in a position central to the individual coils forming the handle and the end *b* prevented from rattling upon the end of the shank.

It should be observed that the coils of wire at the middle portion of the handle are larger than those at the ends, the series forming a helispherical coil. The object of such a form is twofold—namely, to afford a handle of convenient size to be grasped by the hand and sufficient air-space between the shank and handle to prevent the conduction of heat from the shank to the middle portion of the handle. The open spaces between the coils and shank keep the coils comparatively cool.

I am aware that heretofore tool-handles have been made of wire coils integral with the tools; also, that a stove-lid lifter has been made of one piece of wire bent upon itself so as to have one part longer than the other, the longer part being coiled around itself and the shorter; but such is not my invention and is not claimed by me.

What I claim as my invention is—

The herein-described fire-poker, composed of a shank, A, provided with an annular groove, *e*, and a coiled spring, C, the inner coil of said spring being of a diameter less than the diameter of the shank and in engagement therewith, and the outer coil of which is adapted to engage the groove in the shank to retain said coil in position, substantially as described, and for the purposes set forth.

In testimony whereof I have hereunto set my hand this 26th day of December, 1885.

JOHN E. GAITLEY.

Witnesses:

GEO. A. MOSHER,

W. H. HOLLISTER, Jr.