No. 678,316. Patented July 9, 1901.

J. KELSEY.

UMBRELLA HANDLE.

(Application filed Dec. 1, 1899.)

(No Model.)

Fig. 3.

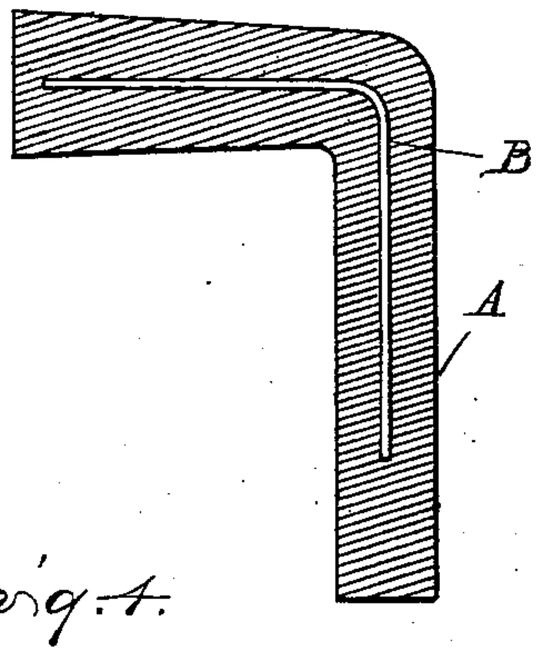
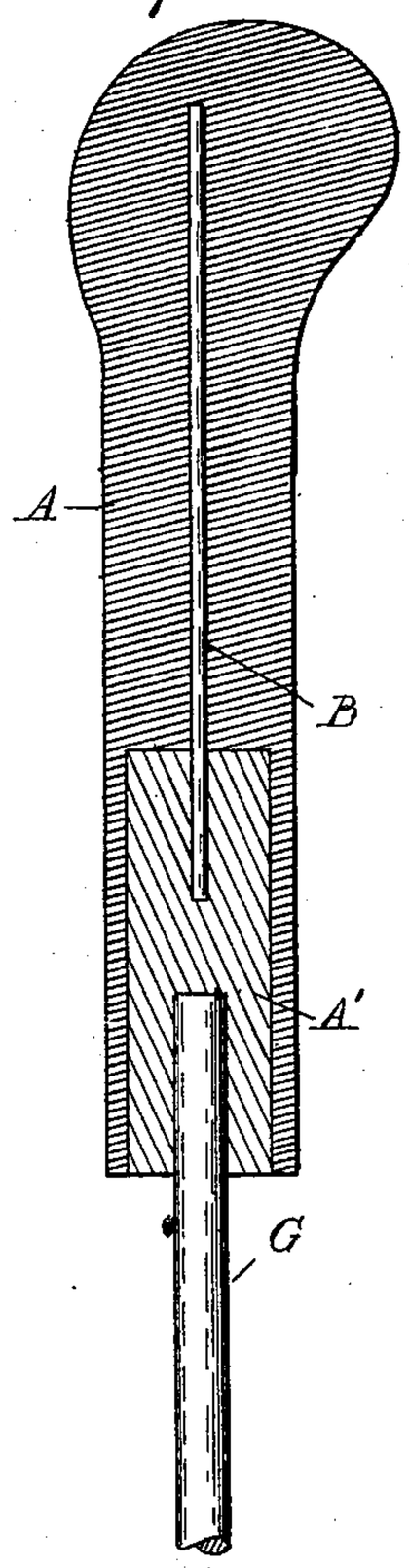


Fig. 4.

Fig. 2.



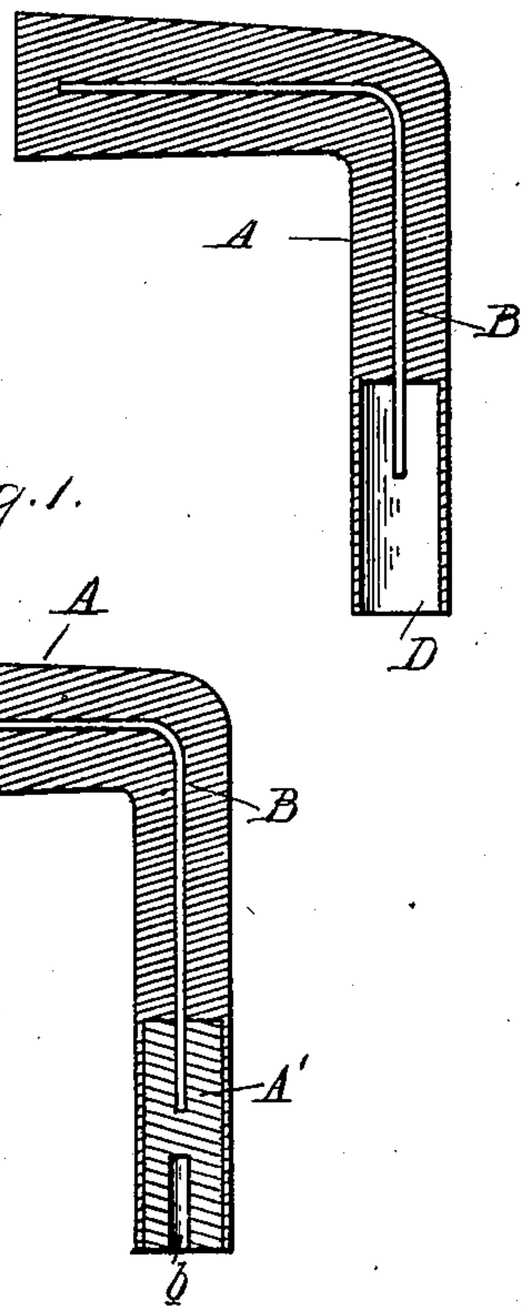


Fig. 5.

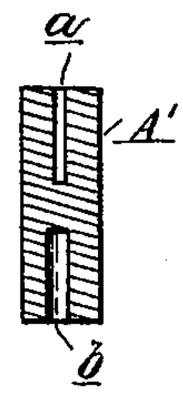


Fig. 1.

Witnesses
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UNITED STATES PATENT OFFICE.

JOHN KELSEY, OF DETROIT, MICHIGAN.

UMBRELLA-HANDLE.

SPECIFICATION forming part of Letters Patent No. 678,316, dated July 9, 1901.

Application filed December 1, 1899. Serial No. 738,817. (No model.)

To all whom it may concern:

Be it known that I, JOHN KELSEY, a citizen of the United States, residing at Detroit, in the county of Wayne and State of Michigan, have invented certain new and useful Improvements in Umbrella-Handles, of which the following is a specification, reference being had therein to the accompanying drawings.

The invention consists in the construction of a handle for umbrellas and the like, as more fully hereinafter described, and particularly pointed out in the claim.

In the drawings, Figures 1 and 2 are vertical central longitudinal sections through a bent and a straight handle embodying my invention. Figs. 3 and 4 are similar sections showing the handle in various steps of manufacture, and Fig. 5 is a similar section through the connecting-plug.

My improved handle is made from a composition shaped into a mold of desirable shape and having a plug which forms the connecting means between the stick or stem and the handle.

I will describe the manufacture of a bent handle as illustrating my invention.

The handle is shaped by forcing into a suitable mold a plastic hardening compound, having first suspended in the mold a rigid metal core, A being the body of the handle, and B the core, as shown in Fig. 1. In a bent handle this core extends around the bend. In a straight handle it is sufficiently embedded in the body; but in both cases the compound covers the ends of the core, as plainly shown in Fig. 3. The handle being thus formed is allowed to dry and harden. When the handle is sufficiently hard, I form at one end by a suitable boring-tool a socket or bore D, which, as shown, extends up beside the core—that is, the core projects into the socket thus formed in the end of the handle, as shown in Fig. 4. The plug A′, preferably of wood, is then fitted into this socket, this plug having a bore or socket *a* into which the projecting end of the core fits and a bore or socket *b* in which the stem or stick G is adapted to be secured. This construction gives me a handle which is quite as strong as the ordinary wooden handle with means for securing it to the stick or stem of the umbrella in the same manner as the present wooden handle. Furthermore, by employing a wooden plug as the connecting device I am enabled to fit the handle to umbrella-sticks of different diameters by simply increasing the size of bore in which the stick extends. Also the plug relieves the core from the strain usually brought upon it when the latter is directly connected to the stick, and thus acts to keep the core from being loosened or separated from the plastic compound constituting the handle.

What I claim as my invention is—

A handle for umbrellas, &c., comprising a body composed of a hardened plastic compound having a bore formed in one end thereof, a metal core embedded within the body having one end extending centrally within the handle-bore, and a wooden plug fitting within said bore around the projecting core end and having its outer end bored to receive the umbrella-stick.

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

JOHN KELSEY.

Witnesses:
L. J. WHITTEMORE,
H. C. SMITH.