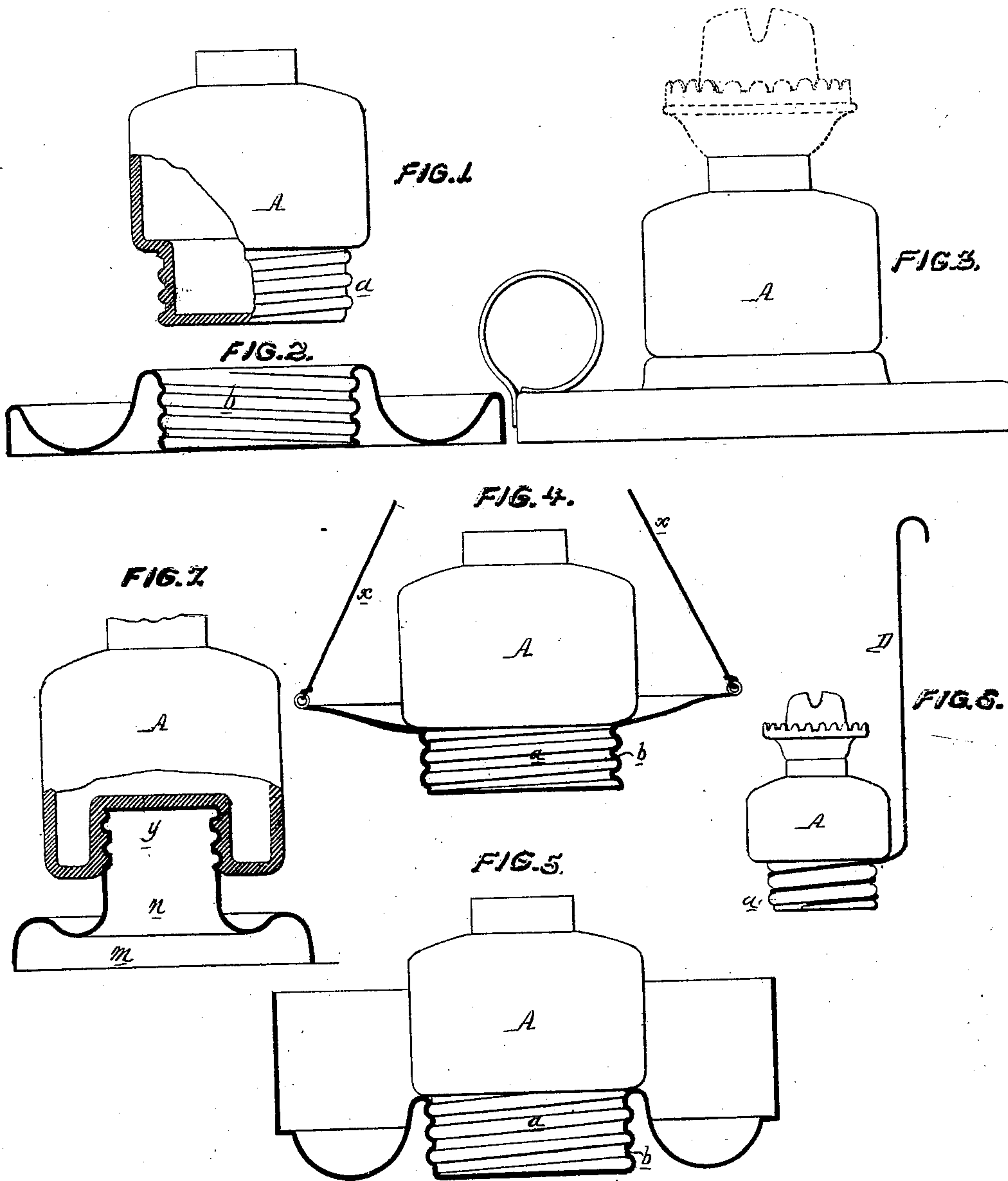


A. French,

Securing Glass Vessels to Metal Bases.

No. 105061.

Patented July 5, 1870.



WITNESSES

*Wm. B. Harding—
John Parker.*

*Alonzo French
by his Attor.
Howson and Son.*

UNITED STATES PATENT OFFICE.

ALONZO FRENCH, OF PHILADELPHIA, PENNSYLVANIA.

IMPROVED MODE OF SECURING GLASS VESSELS TO METAL BASES.

Specification forming part of Letters Patent No. **105,061**, dated July 5, 1870.

To all whom it may concern:

Be it known that I, ALONZO FRENCH, of Philadelphia, county of Philadelphia, State of Pennsylvania, have invented an Improvement in Securing Glass Vessels to Metal Bases, Supports, Stands, &c., of which the following is a specification:

My invention consists of a glass vessel, above or within the base of which is formed a screw-thread, as described hereinafter.

The main object of my invention is to afford simple and effective means of securing glass vessels, whether they consist of inkstands, fountains of lamps, or other objects, to bases, stands, supports, and especially such as can be made of thin sheet metal, in the manner described hereinafter.

Referring to the accompanying drawing, Figure 1 is a view, partly in section, of a glass vessel made in accordance with my invention for attachment to bases, stands, supports, &c.; Fig. 2, a sectional view of a sheet-metal base for receiving the glass vessel; Fig. 3, an exterior view of the vessel and base combined; Fig. 4, a view representing the vessel adapted to a modified form of base; Fig. 5, the vessel adapted to the detachable base of a lamp or lantern; Fig. 6, the vessel representing the reservoir of a lamp, and illustrated as applied to a suspension-wire; and Fig. 7 represents a modification of my invention.

The vessel shown in Fig. 1 may be supposed to represent an inkstand of the simplest form, as far as the upper portion of the vessel A is concerned.

On the exterior of the lower closed portion *a* of the vessel, however, is formed a screw-thread, which, in the present instance, is continuous, but which may be made in sections of a screw-thread, the latter, as will be rendered apparent hereinafter, being the equivalents of a continuous thread.

The vessel thus constructed is in a condition for being secured, by a screw-like action, to a base, stand, or support of any material in which an internal thread for receiving the threaded portion of the vessel can be conveniently formed. I prefer, however, to make the base of sheet-zinc, or other

thin metal or alloy, of a character which will admit of being shaped by what is known as the "spinning process," the thread being formed by the pressure of the metal into the spaces between the internal threads of jaw-like dies, or those of screw-taps or dies, in a manner too well known to need a minute description here. Reference may be made, however, to the machine for which Letters Patent were granted to S. B. Rowley, September 21, 1869, the said machine having been especially constructed for forming screw-threads on thin metal by pressure.

Fig. 2, for instance, represents such a base, struck up from a flat disk of sheet metal, the central cylindrical recess *b* of this base having a screw-thread formed in it, in the manner described, for receiving the threaded portion of the vessel, so that, to secure the latter in its place, all that is necessary is to screw it down into the recess of the base, and, in doing this, the metal will yield to any slight irregularities which may occur on the glass thread, for which reason I prefer thin metal.

The vessel thus united to the base will form a cheap and steady inkstand; or, if the vessel A be viewed as the reservoir or fountain of a lamp, and a burner be attached to the neck, as shown by dotted lines in Fig. 3, and the base be furnished with a suitable handle, we shall have a cheap and suitable hand-lamp.

In Fig. 4 the sheet-metal base is of a somewhat different form, which may be adopted when the vessel, as the reservoir or fountain of a lamp, has to be suspended by wires or otherwise.

In Fig. 5 the base represents the detachable bottom of a lantern or bracket-lamp; and in Fig. 6 the vessel, representing the reservoir of a lamp, is adapted to the spirally-coiled end of a suspension-wire, D.

In some cases an internal screw-thread may be formed in a recess, *y*, in the base of the glass vessel, as shown in Fig. 7, and this plan may be adopted in the reservoirs of lamps, so that the latter may be screwed onto the threaded tops of stands or pillars; or this plan may be adopted when the vessel

has to be attached to a sheet-metal base, *m*, which, however, has a cylindrical threaded projection, *n*, in place of the threaded recess shown in Fig. 2.

I claim—

A glass vessel, above or within the closed base of which is formed a screw-thread, for the purpose specified.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

ALONZO FRENCH.

Witnesses:

JOHN WHITE,
HARRY SMITH.