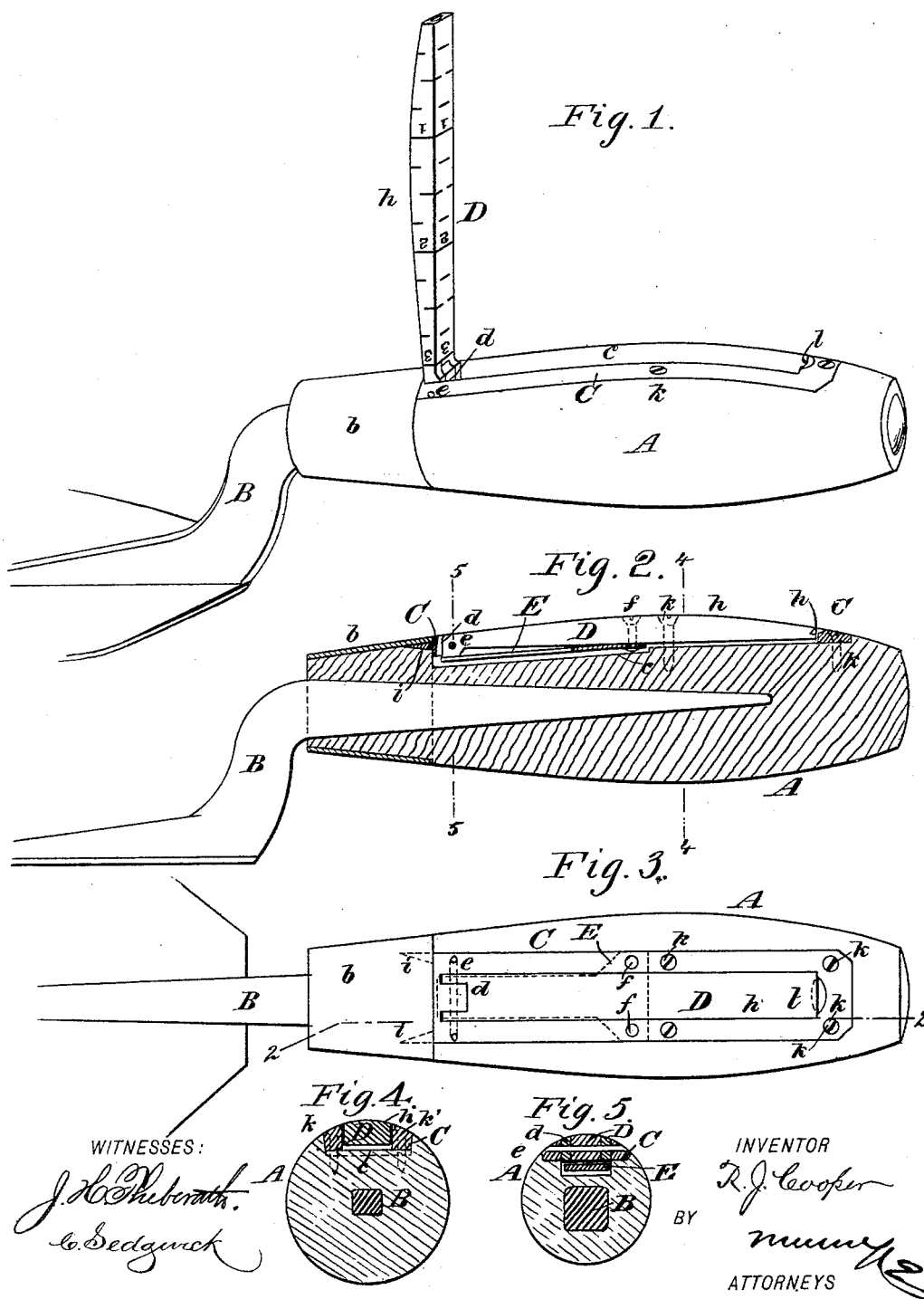


(No Model.)

R. J. COOPER.
TROWEL HANDLE.

No. 458,944.

Patented Sept. 1, 1891.



UNITED STATES PATENT OFFICE.

RICHARD J. COOPER, OF DULUTH, MINNESOTA.

TROWEL-HANDLE.

SPECIFICATION forming part of Letters Patent No. 458,944, dated September 1, 1891.

Application filed April 14, 1891. Serial No. 388,850. (No model.)

To all whom it may concern:

Be it known that I, RICHARD J. COOPER, of Duluth, in the county of St. Louis and State of Minnesota, have invented a new and useful Improvement in Trowel-Handles, of which the following is a full, clear, and exact description.

My invention has for its object to facilitate the work of the bricklayer where projecting courses or panel-work occur by enabling him to take the necessary measures of such variations with his trowel as he holds said tool in his hand for the regular performance of the work he is engaged in—that is, of laying brick.

The invention consists in a specially-constructed trowel-handle with measuring-rule combined; hinged to the handle at one end of a longitudinal recess formed in the latter, the back or outer side of such rule conforming in shape to the adjacent portion of the handle, as hereinafter described.

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

Figure 1 represents a view in perspective of the trowel-handle with shank portion of the trowel attached and with the measuring-rule as raised or in position for use. Fig. 2 is a partly sectional longitudinal view upon the line 2 2 in Fig. 3. Fig. 3 is a plan view; Fig. 4, a transverse section upon the line 4 4 in Fig. 2; and Fig. 5 is a transverse section upon the line 5 5 in Fig. 2.

A indicates the the handle, which may be made of wood, as usual, and of truncated oblate spheriodal form, with the usual ferrule *b* on its inner end. B is the shank portion of the trowel driven into said handle.

Cut in the top of the handle A is a longitudinal recess *c*, in which is set and secured a metal frame C to carry and receive within it the measuring-rule D, hinged to the forward portion of the said frame as by a knuckle-joint *d* and pivot-pin *e*, and, further, carrying

a spring E, which is secured at its one end to the under side of said frame, as by screws or rivets *f f*, and at its opposite or forward and free end bears on the portion of the knuckle-joint *d*, which forms the hinged end portion of the rule D to, as in the case of clasp or pocket knife blades, both hold the rule D closed when shut down within the frame C and open when raised to a right-angled position with the handle A, as shown in Fig. 1. The outer surface of the frame C and back *h* of the rule D are both shaped to conform to the round or prolate spheroidal shape of the handle A, so that when the rule is shut down, as shown, for instance, in Fig. 2, the handle will present an unbroken surface for manipulating the trowel, as in the case of an ordinary trowel-handle, and as this necessitates the cutting off short of the ends of the pivot-pin *e* the knuckle-joint *d* will give the necessary strong connection between the rule and the frame which carries it.

The frame C is secured to its position on or in the handle by spurs *i i* at its forward end, made to enter within the ferrule *b*, and by screws *k* in the rear.

The opening or free end of the rule D is provided with a thumb-notch *l* for raising the rule from its shut position in the handle to its raised position, as shown in Fig. 1.

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

The trowel-handle having a longitudinal recess and the measuring-rule hinged at one end of such recess and adapted to fold into it, the back of said rule conforming in shape to that of the adjacent portion of the handle, as shown and described, for the purpose specified.

RICHARD J. COOPER.

Witnesses:

E. A. TINKHAM,
ROBT. W. GRAFF, Jr.