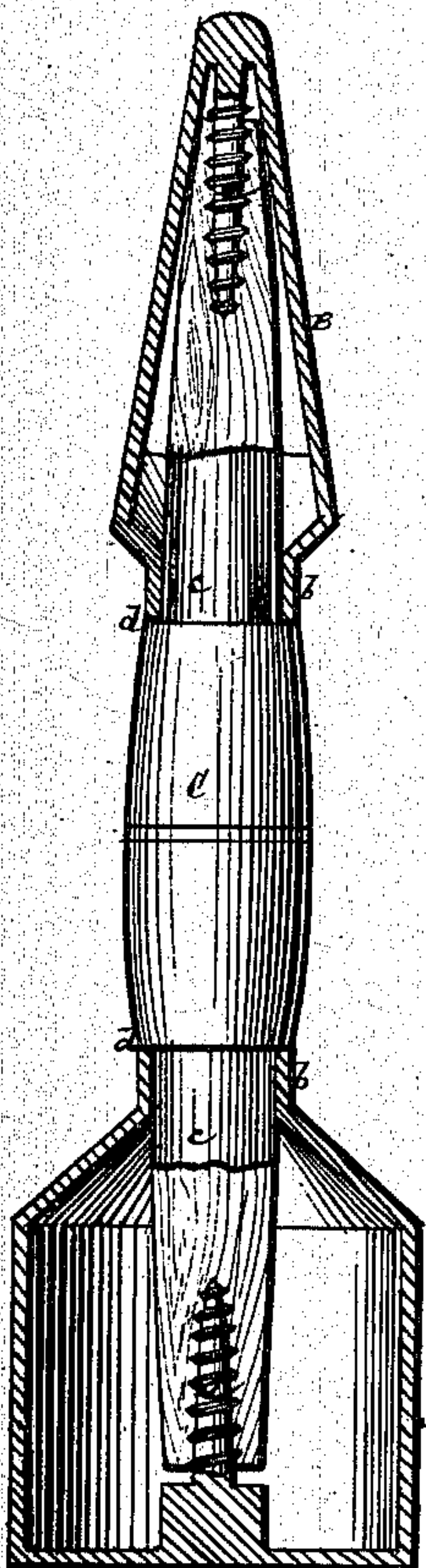


*Edmund H. Meigs Imp<sup>d</sup> Moulders Rammer.*

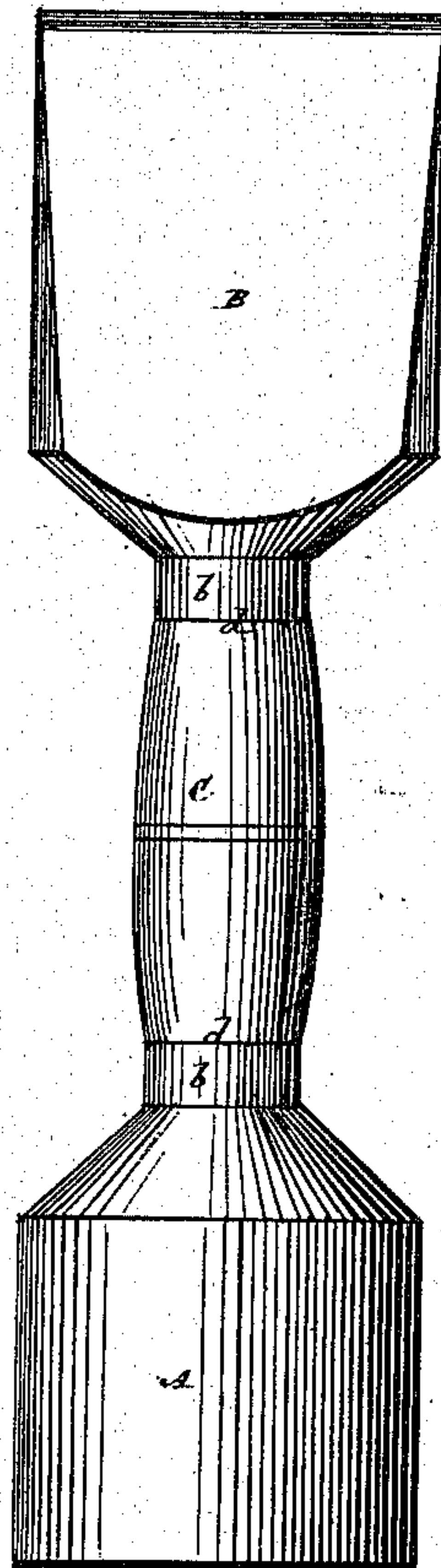
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PATENTED JUN 21 1870

*Fig. 2.*



*Fig. 1.*



Witnesses:  
*Fred. Haynes*  
*J. W. Coombs*

*Edmund H. Meigs*  
*per Brown Coombs & Co*  
*Attorneys*



# United States Patent Office.

EDMUND H. MEIGS, OF EAST BERLIN, CONNECTICUT, ASSIGNOR TO THE  
ROYS & WILCOX COMPANY, OF SAME PLACE.

Letters Patent No. 104,620, dated June 21, 1870.

## IMPROVEMENT IN MOLDERS' RAMMERS.

The Schedule referred to in these Letters Patent and making part of the same

To all whom it may concern:

Be it known that I, EDMUND H. MEIGS, of East Berlin, in the county of Hartford and State of Connecticut, have invented a new and useful Improvement in Molders' Rammers, of which the following is a full, clear, and exact description, reference being had to the accompanying drawing forming part of this specification, and in which—

Figure 1 represents a longitudinal outside view, and

Figure 2 a longitudinal section of a molder's rammer, constructed in accordance with my improvement.

Similar letters of reference indicate corresponding parts.

My invention consists in a molder's rammer, having its butt and pean made of metal, while its handle is formed of wood; and said invention includes a hollow construction of the butt and pean together, with a peculiar mode of fitting and fastening the same on the wooden handle, whereby lightness and strength are combined with cheapness of construction.

A molder's rammer thus constructed may be made cheaper than one of wood, and is much smoother and more free in the sand, lifting no dirt, and is not liable to separate, as does the ordinary wooden rammer, in which the pean is tipped with metal that soon works loose from the wood. Also, the butt and pean, being made of metal in a hollow form, preferably cast without seam or joint, the same may be made lighter than wood, while the wooden handle onto which they are fitted gives the same good hold for the hand that a rammer made wholly of wood does.

Referring to the accompanying drawing—

A represents the butt; and

B, the pean of a molder's rammer, both made of metal and cast hollow, with necks, *b b*, at their inner extremities, arranged to fit reduced portions, *c c*, of the wooden handle C, said necks bearing up against shoulders, *d*, and the reduced portions *c c* extended, so that, in fitting on the butt and pean, the latter are firmly secured to the handle, and supported against shake, not only by the necks *b b*, but also by screws, *e e*, cast in or made fast to the butt and pean as internal projections from their outer ends, and arranged to screw into the ends of the reduced portions *c c* of the handle.

This is at once a cheap, simple, and durable construction, admitting of the butt, pean, or handle being separately fitted or renewed, and detached, as required, the whole forming a molder's rammer which has all the advantages of a wooden one, as regards hold, with the additional advantage of smoothness and lightness, and freedom from stickiness in respect of its butt and pean, together with lightness, which reduces the labor of using it.

What is here claimed, and desired to be secured by Letters Patent, is—

The hollow metal butt A, and pean B, or either, cast as described, and fitted to the handle by a neck, *b*, and screw, *e*, essentially as shown and described.

EDMUND H. MEIGS.

Witnesses:

ALFRED NORTH,  
HORACE B. MEIGS.