

Ward & Hudson.

Molder's Riddle.

N^o 86,789.

Patented Feb. 9, 1869.

Fig. 1.

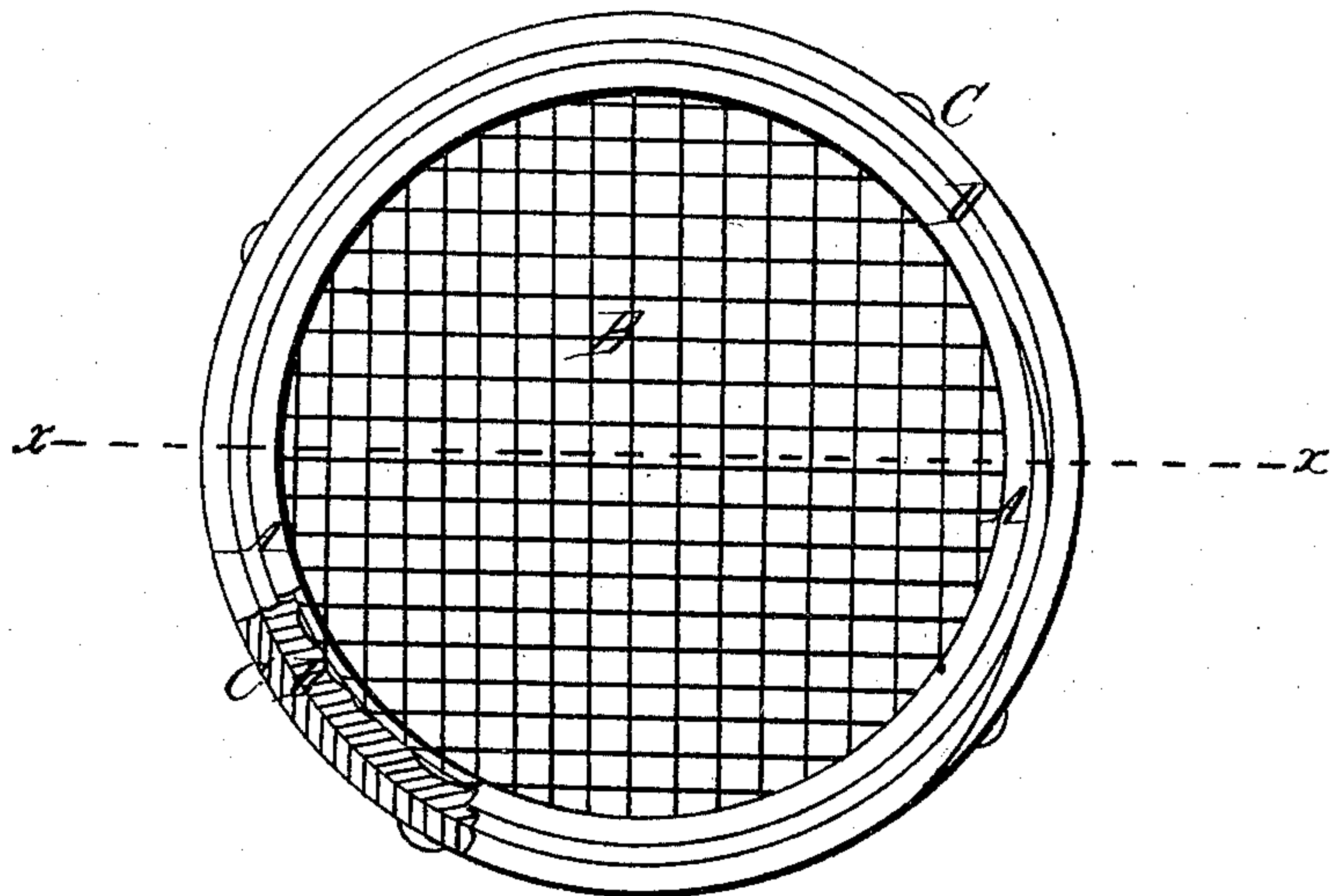
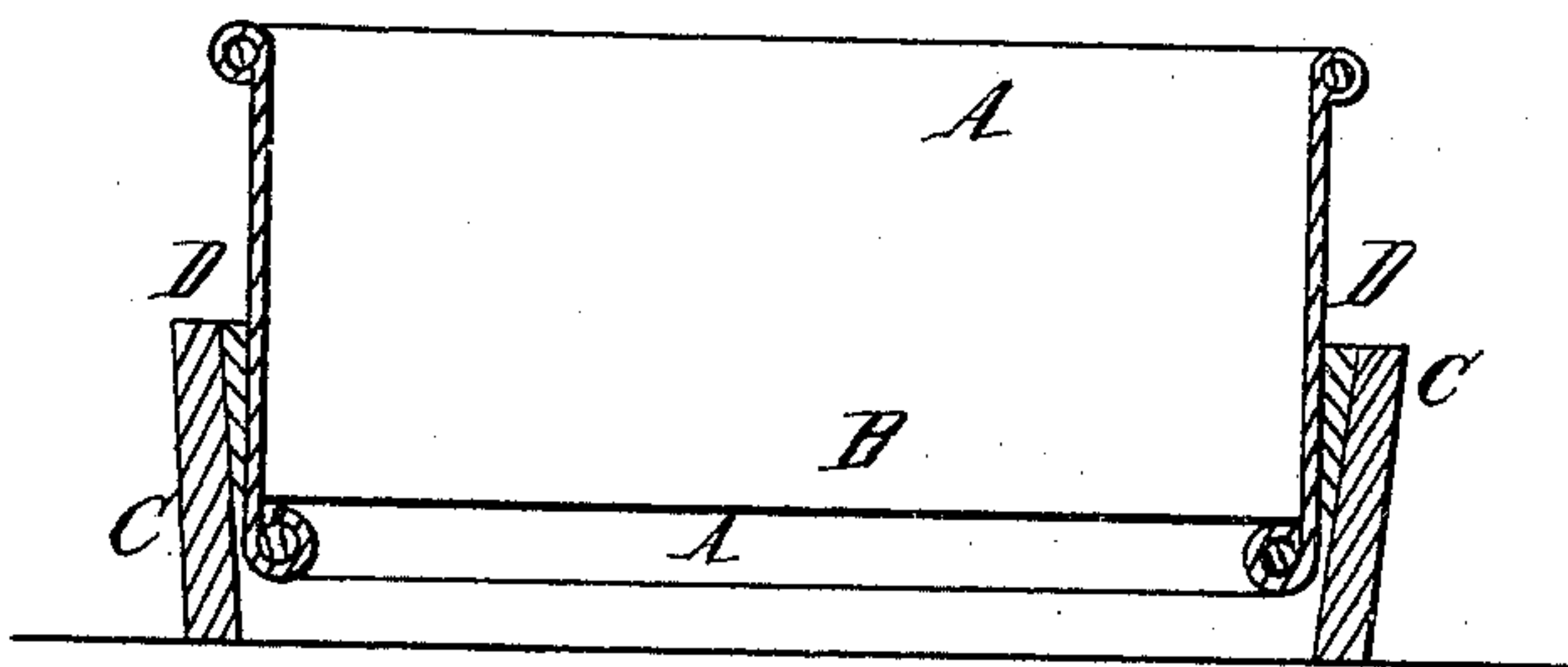


Fig. 2.



Witnesses:

Saml Morgan
H. C. Cotton

Inventor.

Jas. C. Ward
 Jas. Hudson
 per Munro &
 Attorneys

United States Patent Office.

JAMES C. WARD AND JOSEPH HUDSON, OF PEEKSKILL, NEW YORK.

Letters Patent No. 86,789, dated February 9, 1869.

IMPROVEMENT IN MOULDERS' RIDDLE.

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

To all whom it may concern:

Be it known that we, JAMES C. WARD and JOSEPH HUDSON, of Peekskill, in the county of Westchester, and State of New York, have invented a new and useful Improvement in Moulders' Riddles; and we do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a top view of our improved riddle, part of the hoops being broken away to show the construction.

Figure 2 is a cross-section of the same, taken through the line *xx*, fig. 1.

Similar letters of reference indicate like parts.

Our invention has for its object to furnish an improved riddle for moulders' use, simple in construction, strong, and durable, not liable to break, and not liable to burn out when used to receive and screen hot metal; and

It consists in the construction and combination of the various parts of the riddle, as hereinafter more fully described.

A is the main band or hoop of the riddle, to the lower part of which the wire cloth or screen B is attached.

The hoop A is made of sheet-metal, and the wire cloth B is secured to it, by passing the wires of said wire cloth through a row of holes formed through the said hoop, near its lower edge, as shown in figs. 1 and 2.

The upper edge of the hoop A may be strengthened by turning it outward over a wire, as shown in fig. 2, and its lower edge may be strengthened by turning it inward over a wire, as shown in fig. 2.

C is a wooden hoop, placed around the lower part

of the hoop A, so as to cover the wire of the screen B, that projects upon the outer side of said hoop A, and at the same time, and especially, to form a part of the riddle that may be a non-conductor of heat, so that the operator may hold the riddle in his hands when screening hot metal, or other hot substances, without being liable to be burned by the riddle becoming hot.

Riddles, when made in this way, are not only stronger, and more durable, but also, when the wire cloth or screen B may become worn out, or be broken, it may be renewed at a comparatively small expense.

As the wires of the screen project upon the outer side of the metallic hoop A, they would prevent the hoop C from fitting closely to the outer side of the hoop A. To remedy this, the wooden hoop C may be made with a shoulder or offset upon the lower part of its inner side, or, which is the preferable construction, a thin extra hoop, D, may be placed between the upper part of the wooden hoop C and the metallic hoop A, of such a thickness as to equal or a little exceed the projection of the wires of the wire cloth B, as shown in fig. 2.

The wooden hoop C may be secured to the metallic hoop A by rivets, so as to make the riddle firm, and prevent the hoop C from working upon the hoop A.

Having thus described our invention,

We claim as new, and desire to secure by Letters Patent—

The moulders' riddle, consisting of the hoop A, wire cloth B, and wooden hoop C, constructed, combined, and arranged as herein described.

JAMES C. WARD.
JOSEPH HUDSON.

Witnesses:

HENRY S. MASON,
OSCAR V. CRANE.