

(Model.)

D. M. SPRINGER.

CORE BOX.

No. 244,943.

Patented July 26, 1881.

Fig. 1.

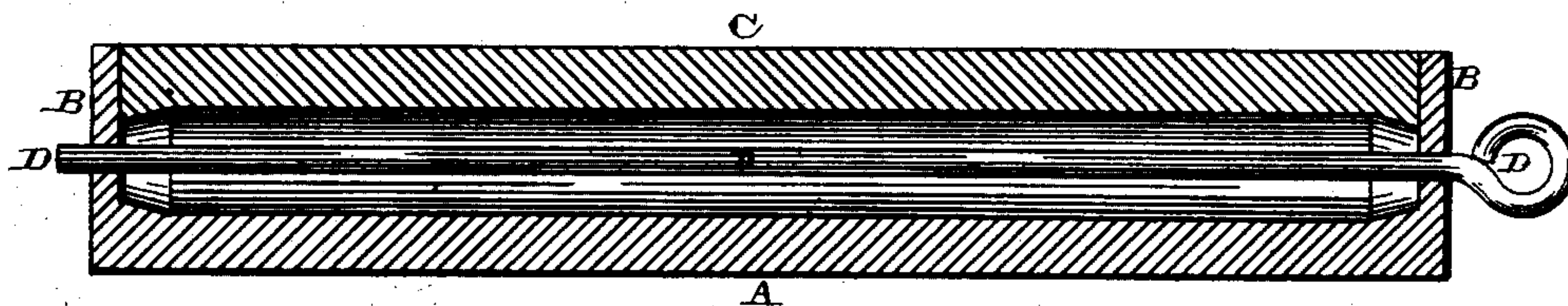


Fig. 2.

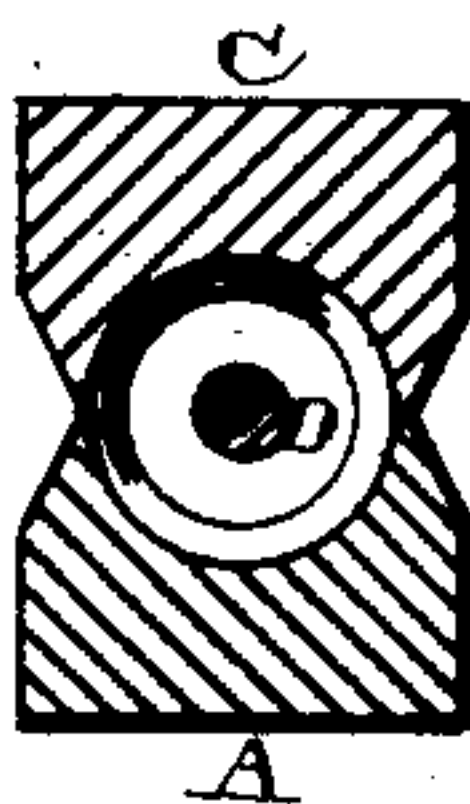
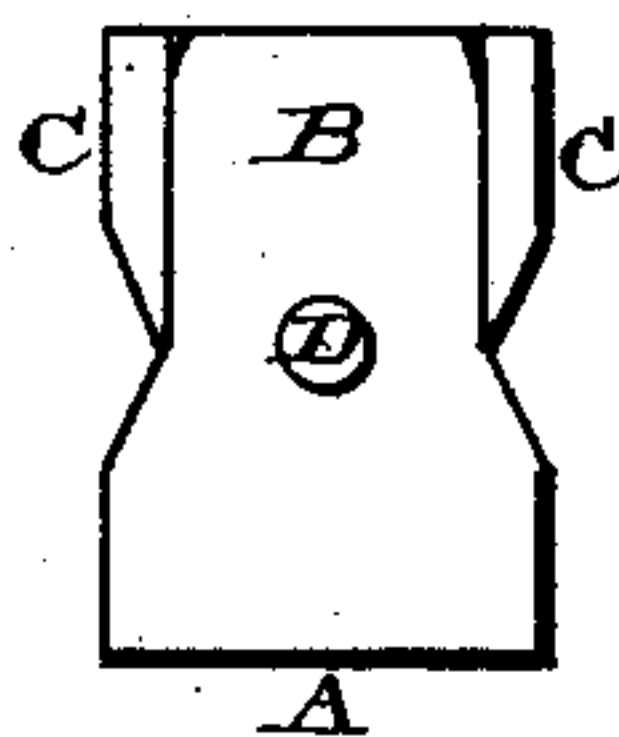


Fig. 3.



Witnesses:

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UNITED STATES PATENT OFFICE.

DANIEL M. SPRINGER, OF LA FAYETTE, INDIANA.

CORE-BOX.

SPECIFICATION forming part of Letters Patent No. 244,943, dated July 26, 1881.

Application filed June 10, 1881. (Model.)

To all whom it may concern:

Be it known that I, DANIEL M. SPRINGER, of La Fayette, in the county of Tippecanoe and State of Indiana, have invented certain new and useful Improvements in Core-Boxes; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use it, reference being had to the accompanying drawings, which form part of this specification.

My invention relates to an improvement in core-boxes; and it consists in forming the box in two parts, one of which is provided with a suitable extension at each end, and the other part with a corresponding recess to catch in these extensions, and thus form guides.

It still further consists in making the box without any other opening than a hole in each end for the vent-rod.

The object of my invention is to produce a box in which a core can be quickly and easily molded, which has no other openings than the holes for the vent-rod, and which is so constructed that the core can be molded without any ramming or pounding.

Figure 1 is a longitudinal vertical section of my invention. Fig. 2 is a vertical cross-section of the same. Fig. 3 is an end view of the box.

My box is made in two parts, of which the lower part, A, has an extension, B, formed at each end. These extensions B are just long enough to have their upper ends flush with the top of the other part, C, of the box when placed in position upon the part A. The part C of the box has a recess formed in each end, so as to catch over the extensions B, and thus hold the two parts together in a line with each other. The extensions B act not only as a guide to guide the part C into position, but also as a support for the vent-rod D, which passes through from end to end. This vent-rod has

a hole made through each end of the box for it, and with the exception of these holes for this rod the box has no other openings in it. Heretofore the boxes have been open at one side or end, so as to allow the sand to be rammed or packed in; but by means of the construction here shown this hole is entirely unnecessary. Each of the two parts of the box is made circular or any other shape upon its inner side, and each one of them has its two edges made sharp, so as to cut through any sand which may get between them, and thus allow the two edges to be forced tightly together.

The part A of the box is first placed in position and filled with sand. The core-rod is then laid in the sand, and the vent-rod is passed through the two ends of the box. Upon the top of these two rods, and in between the two extensions B, a sufficient amount of sand is packed, and then the part C of the box is placed upon the part A, and the two parts are then pressed together until their sharp edges meet. In thus forcing the two parts of the box together the core is molded, the vent-rod is then drawn out, and the core is taken out of the box and placed in an oven to be baked.

Having thus described my invention, I claim—

1. A core-box composed of the two parts A C, the part A being provided with the extensions B, and the part C with corresponding recesses to receive the extensions, substantially as shown.

2. A core-box closed at all points, except at those places where the vent-rod passes through, substantially as described.

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

DANIEL M. SPRINGER.

Witnesses:

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