

A. King,
Pattern for Casting.
No 57,822. Patented Sep. 4, 1866.

Fig 1.

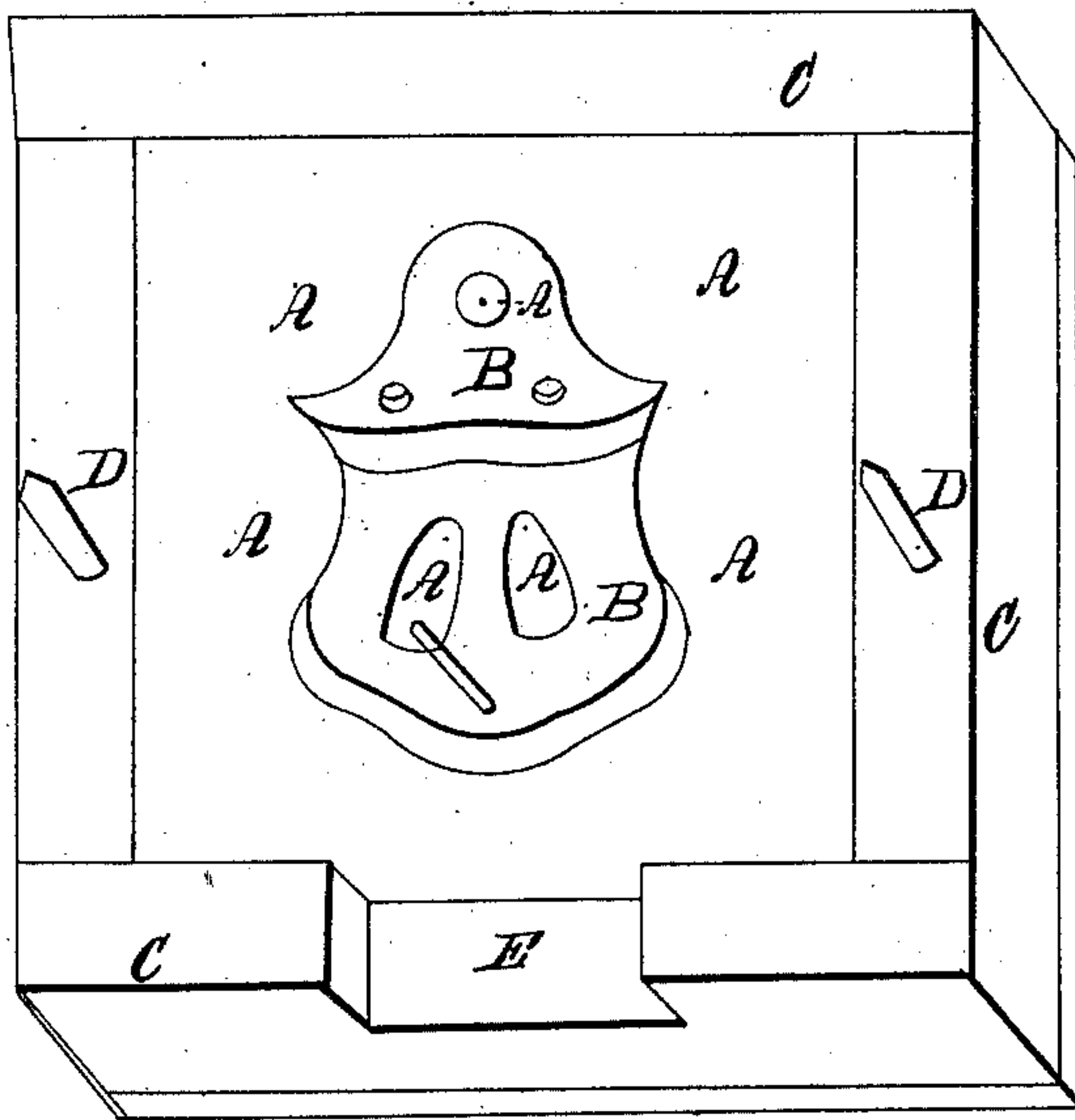
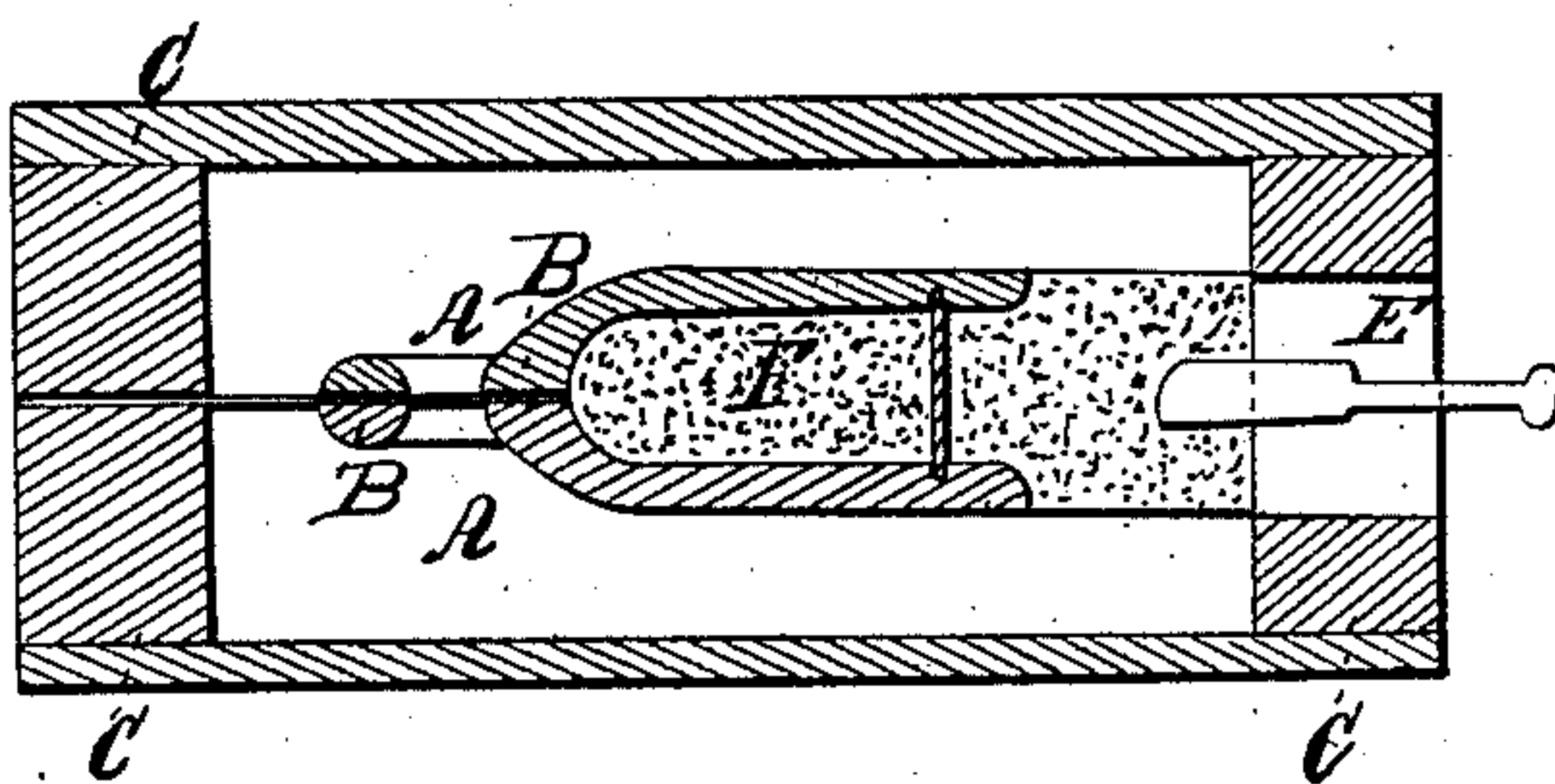


Fig 2.



Witnesses.

A. Melhinch
J. Tripp &

Inventor.

Amos King

UNITED STATES PATENT OFFICE.

ARMON KING, OF UTICA, NEW YORK, ASSIGNOR TO HIMSELF AND JOHN H. CHAPMAN, OF SAME PLACE.

IMPROVEMENT IN MOLDING.

Specification forming part of Letters Patent No. 57,822, dated September 4, 1866.

To all whom it may concern:

Be it known that I, ARMON KING, of Utica, Oneida county, New York, have invented a new and useful Improvement in Molding where "cores" are to be formed in green sand; and I do hereby declare that the following is a full and exact description of the same, reference being had to the accompanying drawings, making a part of this specification, and to the letters of reference marked thereon.

Figure 1 is a perspective view of the under part of the apparatus, with half of the pattern in place. Fig. 2 is a sectional view of the whole through the center.

My improvement consists in forming what is known in molding as a "match" for each part of the pattern, and so incasing them that when the parts are brought together the matches and the pattern become a mold, in which the core may be formed in place, and by removing the matches the other parts of the pattern may be molded in the usual way.

A A represent the matches; B B, the pattern in place; C C C, the casing of the matches; D D, steady or guiding pins; E, an opening in the cases, through which the sand is passed into the center to form the core. F is the core.

The matches may be formed of plaster-of-paris, or of any other suitable material, in the usual way, or in any new way; and the parts must be so arranged that when the parts of

the pattern are in place the steady or guiding pins will bring all the parts properly together.

The mode of operation is as follows: The parts of the pattern are put in place, each part in its own match, and the match-cases are placed one on the other, and brought together by the guide-pins and properly clamped. The sand is then passed in through the opening E and rammed down, and the core is formed. The matches may then be successively removed and the molding proceed in the usual way.

This combination of matches and pattern, in the manner described, does away with the necessity of forming separate cores and the use of core-boxes and core-prints, and also supersedes the slow and tedious process of tucking in the sand and forming the part by hand, and enables the workmen to execute more rapidly and with greater ease and accuracy than by any other known process.

I claim—

Match-plates constructed substantially as described, and used in connection with patterns for forming cores for sand-molds, in the manner set forth.

ARMON KING.

Witnesses:

A. MELHIUCH,
J. TRIPP, Jr.