

(No Model.)

J. A. HORTON.

SAFETY EXPANDING STOVE BARREL.

No. 264,161.

Patented Sept. 12, 1882.

Fig. 1.

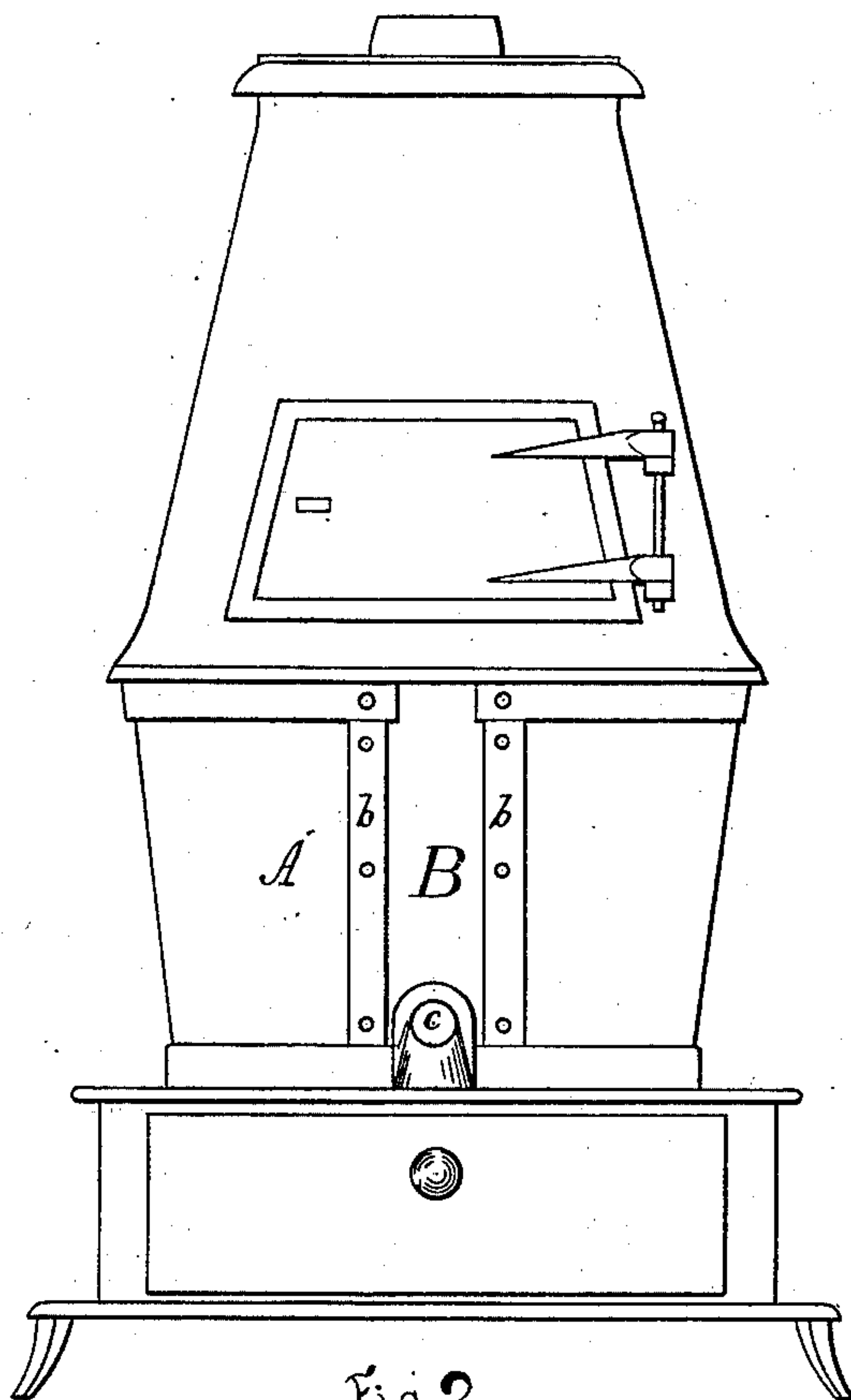
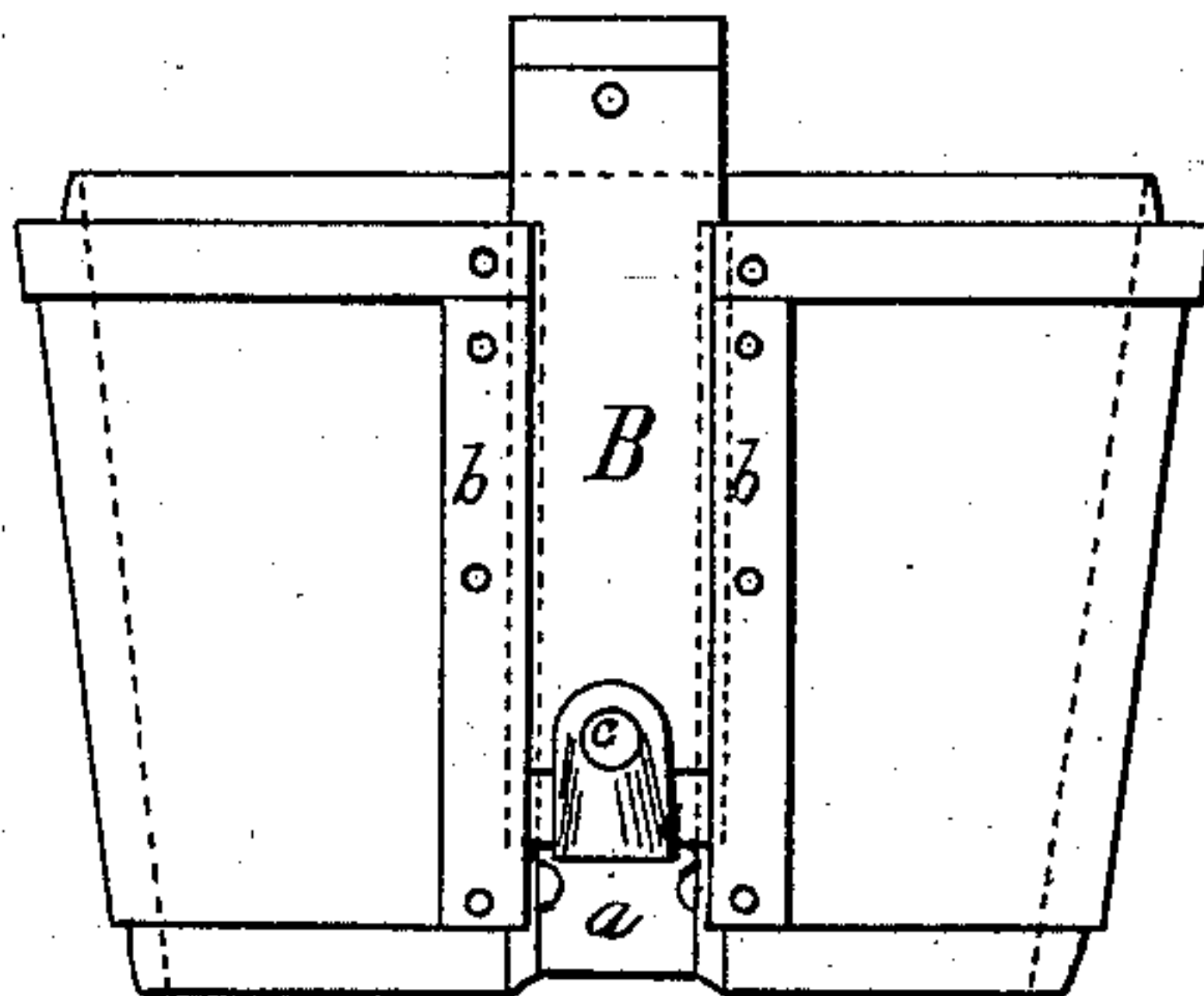


Fig. 2.



Witnesses.

Geo. Nelson.

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SAFETY EXPANDING STOVE-BARREL.

SPECIFICATION forming part of Letters Patent No. 264,161, dated September 12, 1882.

Application filed August 1, 1882. (No model.)

To all whom it may concern:

Be it known that I, JAMES A. HORTON, a citizen of the United States, residing at New Castle, in the county of Lawrence and State of Pennsylvania, have invented certain new and useful Improvements in Safety Expanding Stove-Barrels; 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 appertains to make and use the same, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

My invention is a safety expanding stove-barrel, and embraces the following peculiar features: A furnace-barrel cast with a regular vertical opening or slot in front, extending entirely from the top to the bottom edge and having suitable flanges on each side, in which to fit a vertical cast-metal plate, which is further secured in place by the grate-flange in which the stove-barrel sits and by a bolt at each upper corner passing through both flanges and plate, all of which and their purposes are hereinafter more fully described, and illustrated by the accompanying drawings, in which the same letters designate identical parts of my device in the different figures, respectively.

Figure 1 illustrates the usual barrel-stove, showing the front of the furnace-barrel, with the said vertical plate fixed in its proper position and filling said vertical slot or opening. Fig. 2 illustrates only a front view of said furnace-barrel, showing the flanges and beveled sides of said vertical slot, and, the securing-bolts having been withdrawn, the said vertical plate partially slid upward within the flanges.

The letter A represents said furnace-barrel of the usual barrel-stove, and consists of a cylinder of cast-iron, with a vertical opening, *a*, of suitable width, and extending from the top to the bottom edge in front. The sides of this opening or slot are provided with the flanges *b*, through the upper ends of which and said

cast plate B suitable bolt-holes are bored. Said flanges are suitably made to hold the cast plate in position, so as not only to fill the opening *a*, but to allow said plate to be easily slid up and down and the periphery of said slotted cylinder A to readily expand and contract within them. The cast plate B is also provided with beveled edges to freely fit within the correspondingly-beveled sides of the cylinder opening, and also with a hooded poker-hole, *c*, leading from the outside both into the furnace and the ash-drawer. The plate B is also provided with suitable bolts, which, being run through the upper ends of the flanges and plate, serve to secure the same in the desired position and prevent its working up and down when the fuel is being stirred by the poker through the hole *d*.

By means of the above-described invention the cylinder A is allowed to freely expand and contract within the said flanges, and thereby prevent cracking and breaking out; and the said vertical plate B also is made to suitably fill the opening *a*, and thus keep the fuel within the furnace. Should the said cylinder also either get burned out or broken it can be easily and economically replaced by another similar one, and is furthermore readily applied to all ordinary barrel-stoves; therefore,

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

In a barrel-stove, the safety expanding and contracting furnace-cylinder A, provided with the vertical opening *a* and the guiding-flanges *b*, in combination with the vertical plate B and the hooded passage *c*, substantially as and for the purposes herein specified.

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

JAMES A. HORTON.

Witnesses:

JOHN S. TAGGART,
R. P. MARSHALL.