

No. 804,249.

PATENTED NOV. 14, 1905.

J. C. MILLAR.

OVEN FLOOR.

APPLICATION FILED MAY 23, 1904.

Fig-1

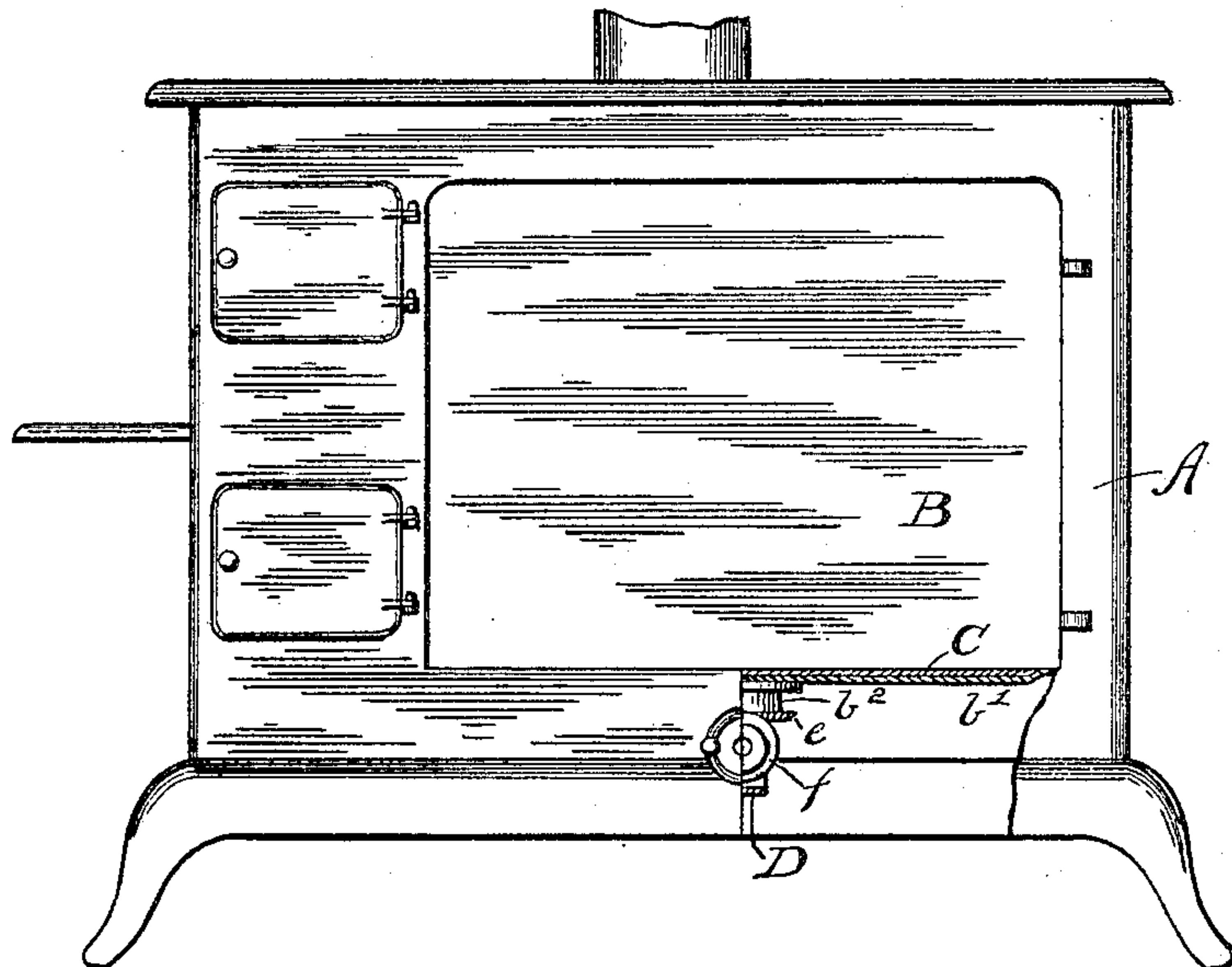


Fig-2

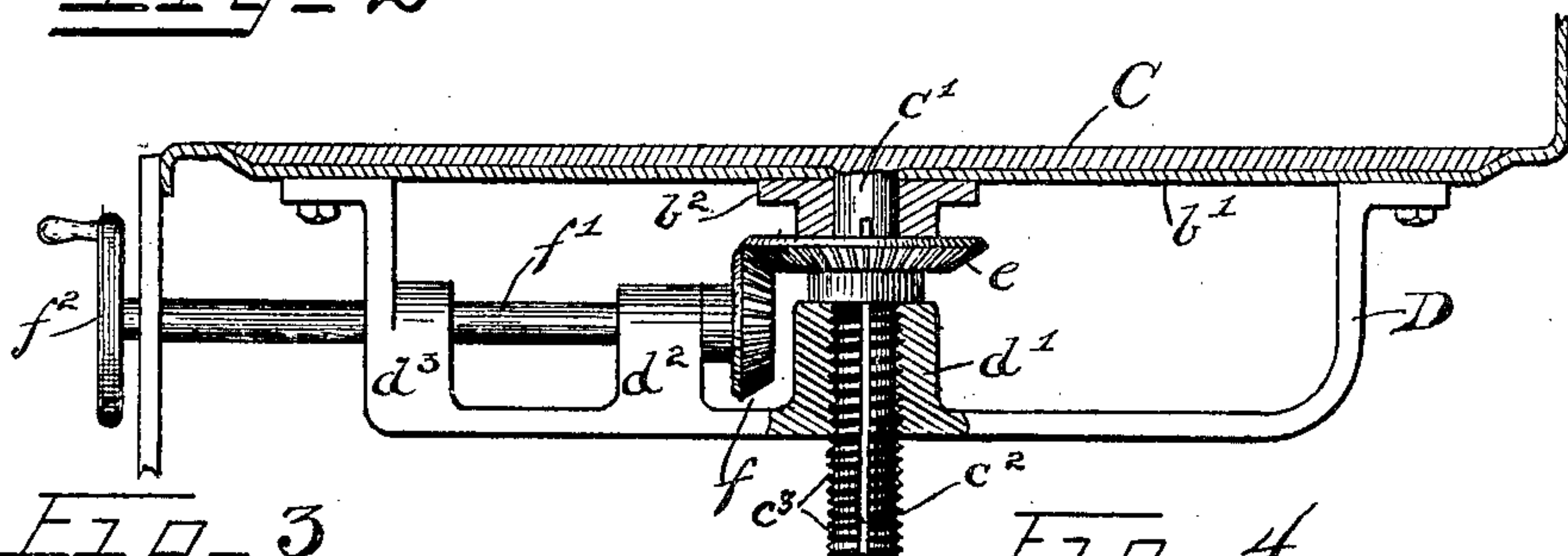


Fig-3

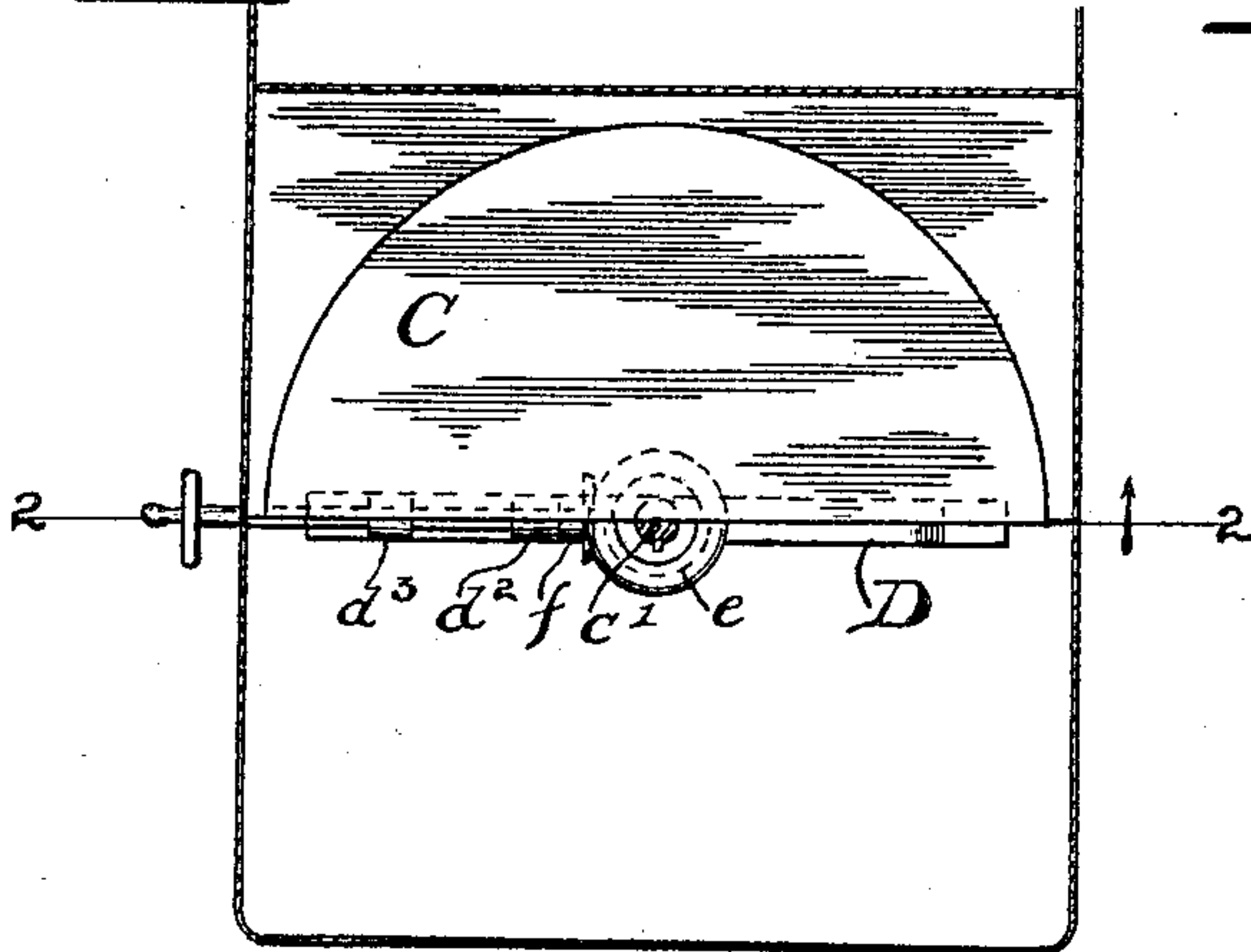
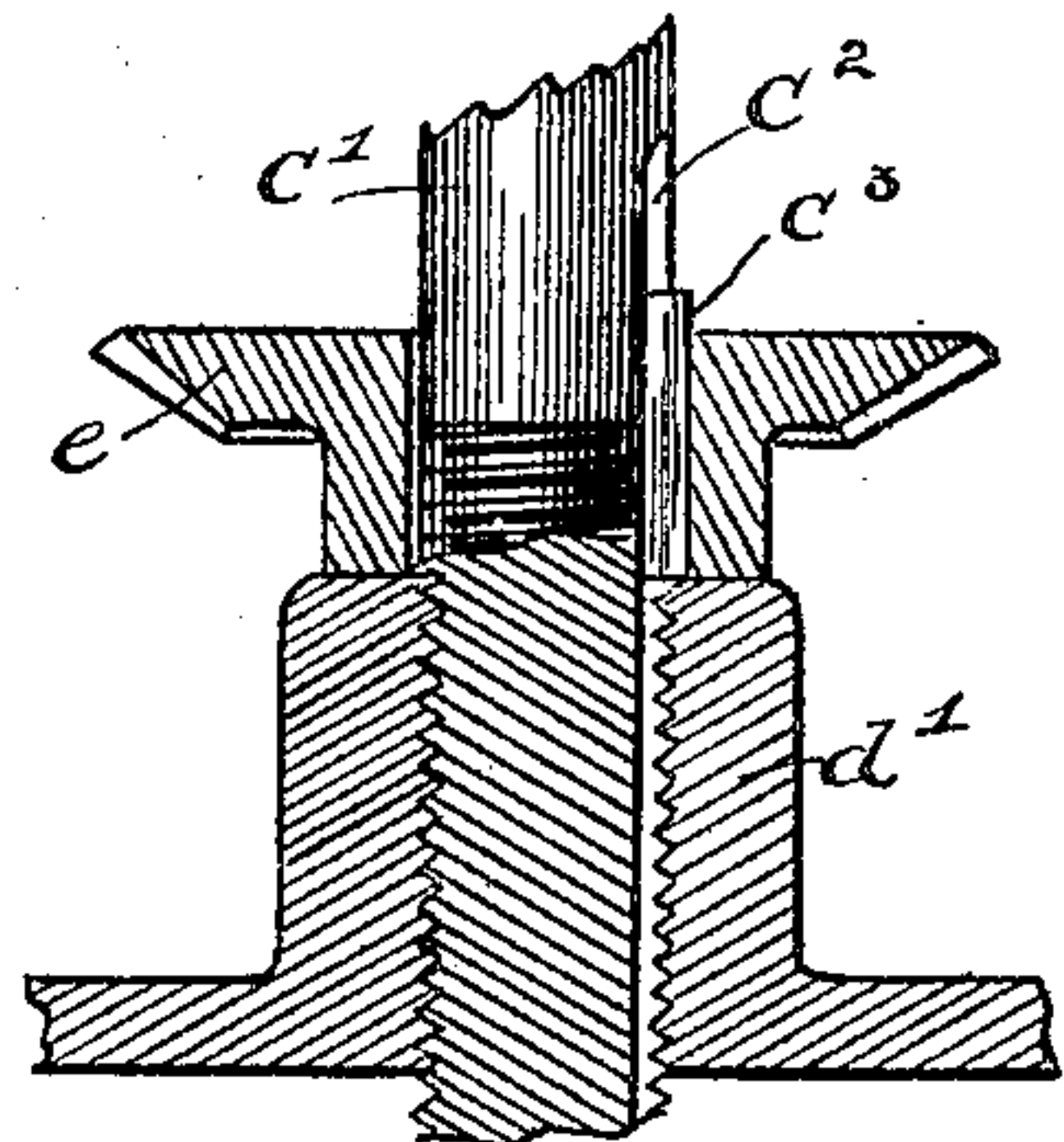


Fig-4



Witnesses:

J. W. Angell.
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Inventor:

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UNITED STATES PATENT OFFICE.

JOHN C. MILLAR, OF BIRMINGHAM, ALABAMA.

OVEN-FLOOR.

No. 804,249.

Specification of Letters Patent.

Patented Nov. 14, 1905.

Application filed May 23, 1904. Serial No. 209,273.

To all whom it may concern:

Be it known that I, JOHN C. MILLAR, a citizen of the United States, residing at Birmingham, in the county of Jefferson and State of Alabama, have invented certain new and useful Improvements in Oven-Floors, of which the following is a specification.

This invention relates to improvements in stoves, and particularly to the construction of the ovens of cooking-stoves.

The especial object of such improvements is to provide means for turning pans containing products being roasted or baked, so that they may be subjected to different degrees of heat in different portions of the oven, and thereby be baked or roasted on all sides uniformly.

A further object is to provide means for elevating the pans containing such products at different heights within the oven with a view of obtaining the advantages of the greater heat at the upper part of the oven-chamber.

While I have shown my improvement as applied to the oven of an ordinary cook-stove, it will be apparent that same are applicable to ovens of large size, such as are commonly used by professional bakers.

Having in mind the foregoing especial objects and purposes of general utility, I have designed the means shown in the accompanying drawings, which form a part of this application, and in which—

Figure 1 is an elevation of a cooking-stove to which my invention is applied, a portion of the stove being shown broken away and a portion of the invention shown in section. Fig. 2 is a view in section, on an enlarged scale, taken through the bottom of the oven and through portions of my attachment. Fig. 3 is a top plan view taken inside of the oven, showing one-half of the attachment; and Fig. 4 is a sectional detail, on an enlarged scale, of portions of the device.

Referring to the drawings, A represents a cook-stove of common form, in which is provided a rectangular oven B. The bottom of the oven is of sheet metal slightly depressed and is represented by the reference character b' . Secured to the under side of the oven-bottom is a box b^2 , in which is journaled the upper portion of the vertical shaft c' , which

extends downwardly from and is suitably secured to the disk C, which constitutes an important element of my invention. Bolted to the under side of the oven-bottom is a yoke D, which is formed with a central boss d' and with journal bearings or boxes $d^2 d^3$, all as shown in Fig. 2. The shaft c' is threaded, as at c^3 , which threads engage the internally-threaded opening through the boss d' . Said shaft is also provided with a vertical groove c^2 . Between the box b^2 and the boss d' there is mounted on the shaft a beveled pinion e , which is feathered or splined on the shaft c' by means of a key c^3 , which fits the groove c^2 in the shaft and also a suitable groove formed therefor in the pinion. Meshing with the pinion e is a pinion f , fixed on the inner end of a horizontal shaft f' , which is suitably journaled in the bearings $d^2 d^3$ and is provided at its outer end with a hand-wheel f^2 by means of which it may be turned. By turning the hand-wheel f^2 it will be seen that through the coaction of the beveled pinions e and f the shaft c' will be rotated and will thus rotate the disk C, which is fixed at the upper end of the shaft, and that if the rotation is continued such disk will be elevated above the floor b' of the oven through the engagement of the thread c^3 with the female thread in the boss d' , such elevation depending upon the length of the threaded portion of the shaft.

It will be understood that the bore of the pinion E will be sufficiently large to permit the threaded portion of the shaft c^3 to pass therethrough without engaging any portion of the pinion. Where it is desired simply to change the position of the products being baked or roasted from one portion of the oven to another without substantially altering the relative position to the vertical diameter of the oven, it will be necessary to make less than a single rotation of the disk.

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

In combination with a cook-stove, a shelf rotatably mounted in the stove-oven and having a threaded shaft extending downwardly from its under side, a beveled pinion loosely splined on said shaft and held against vertical

movement with the shaft, a hanger secured to
the under side of the stove and having a por-
tion in threaded engagement with the shelf-
shaft, and means for driving the beveled pin-
5 ion on the shelf-shaft, said means comprising
a horizontal shaft, and a pinion meshing with
said beveled pinion.

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

JOHN C. MILLAR.

Witnesses:

E. W. CASON,
J. H. STEWART.