

No. 776,699.

PATENTED DEC. 6, 1904.

H. E. STELTS.  
OVEN DOOR INDICATOR.  
APPLICATION FILED NOV. 25, 1903.

NO MODEL.

Fig. 1.

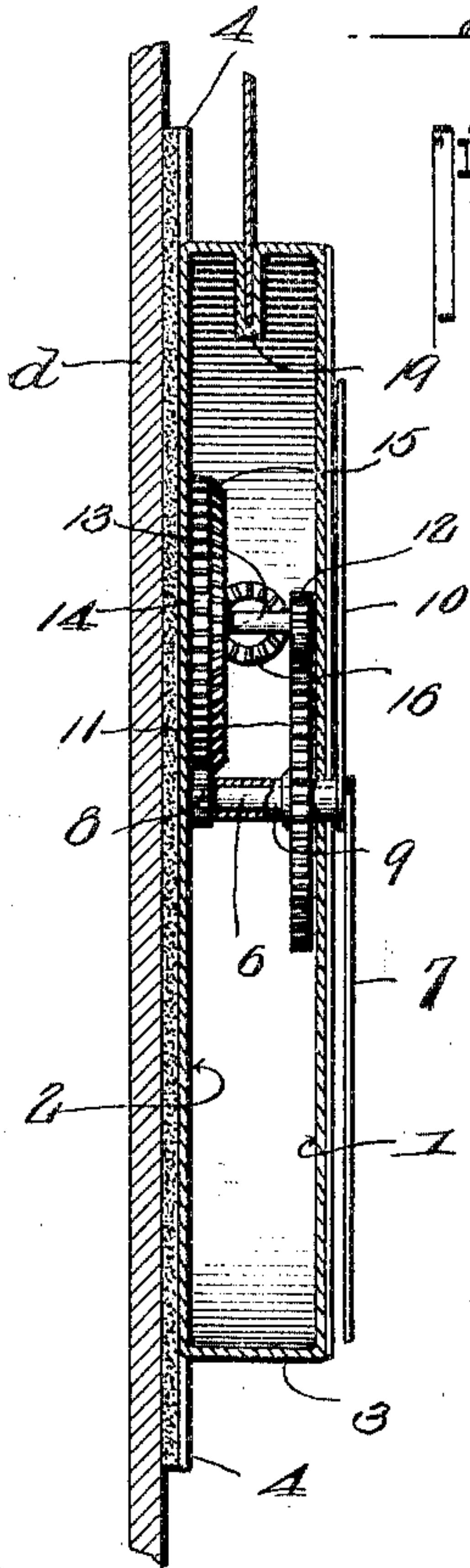
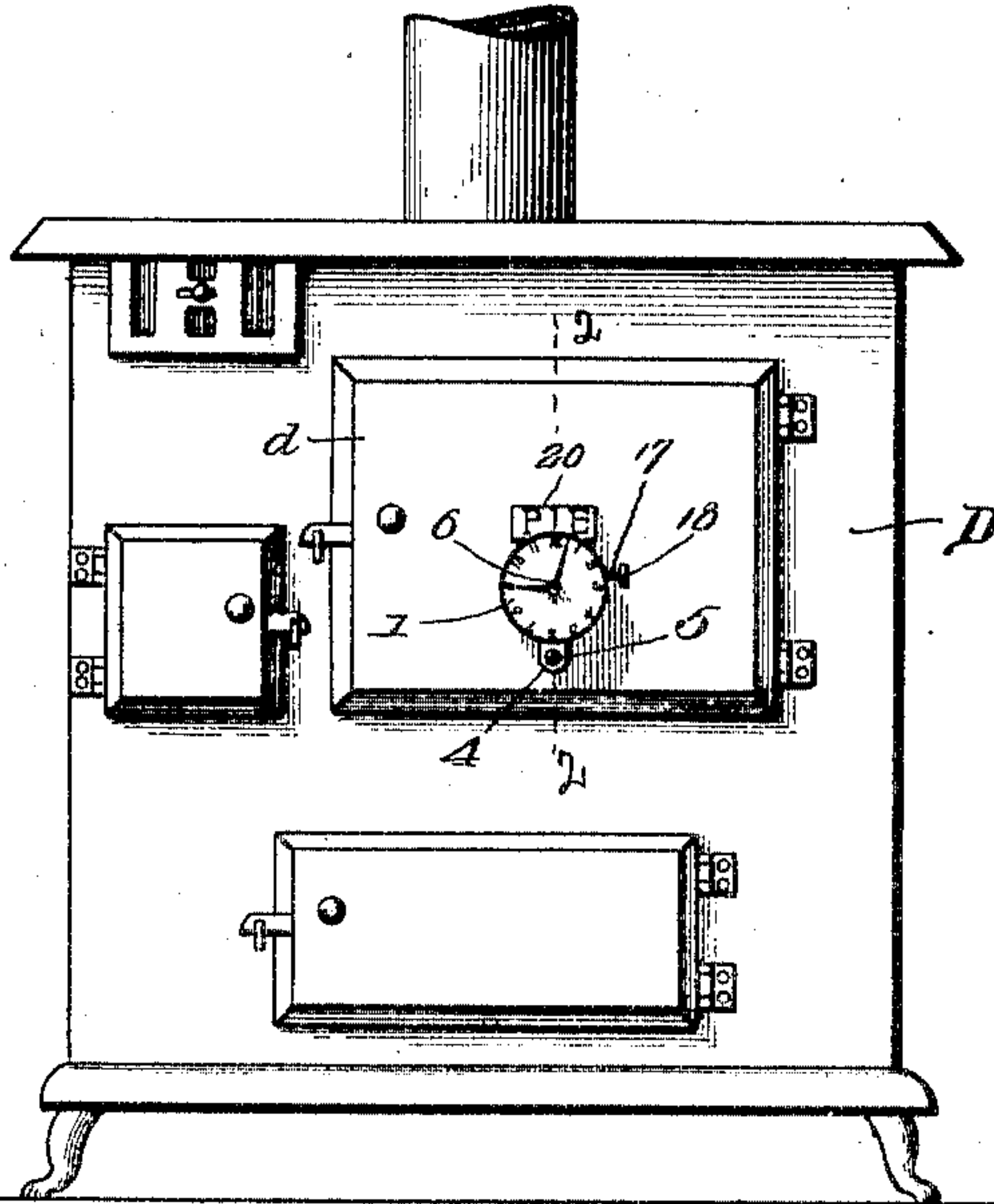


Fig. 2.

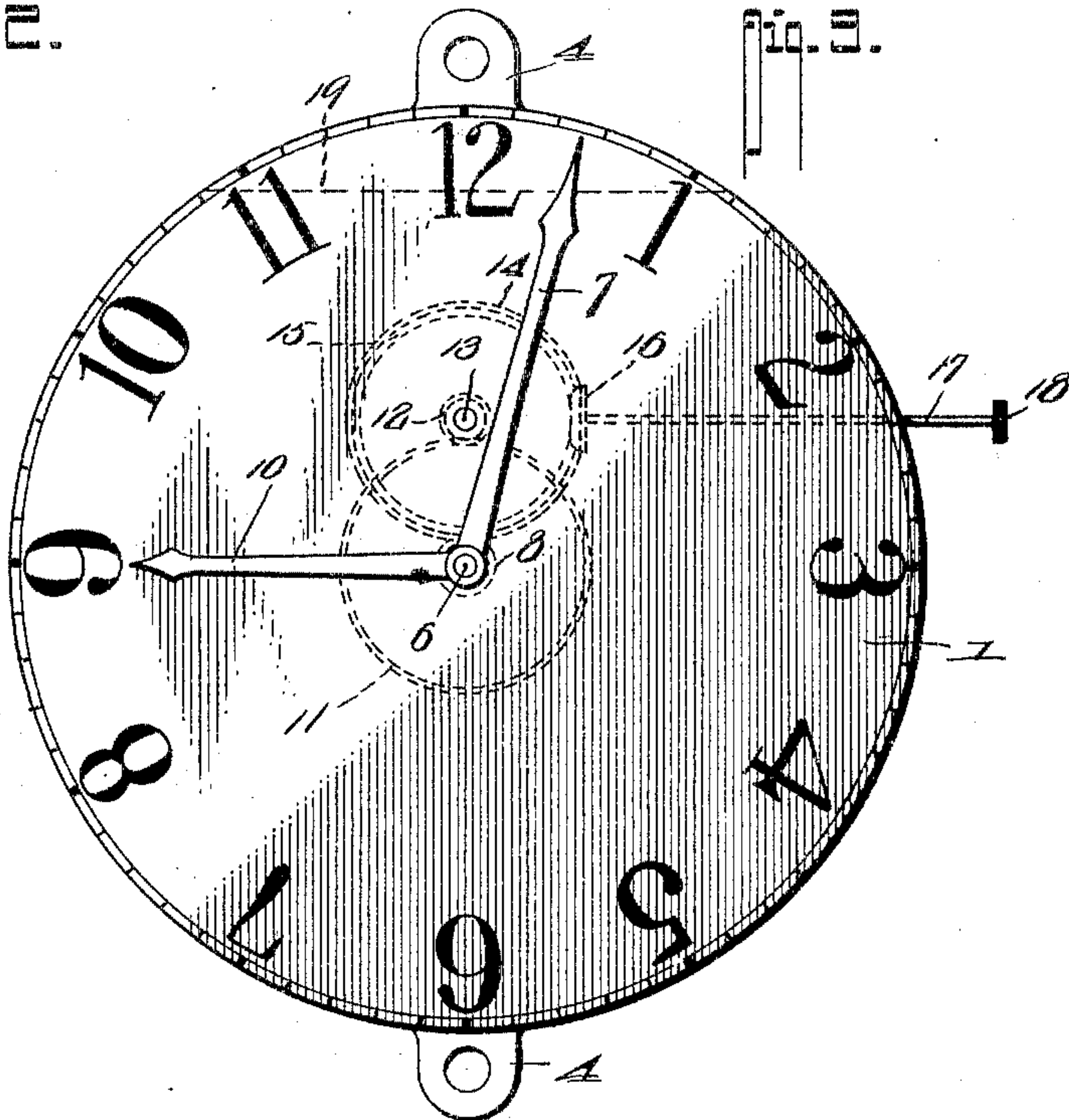


Fig. 3.

Witnesses:

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# UNITED STATES PATENT OFFICE.

HENRY E. STELTS, OF BLOOMFIELD, NEW JERSEY.

## OVEN-DOOR INDICATOR.

SPECIFICATION forming part of Letters Patent No. 776,699, dated December 6, 1904.

Application filed November 25, 1903. Serial No. 182,673. (No model.)

*To all whom it may concern:*

Be it known that I, HENRY E. STELTS, a citizen of the United States, residing at Bloomfield, in the county of Essex and State of New Jersey, have invented a new and useful Oven-Door Indicator, of which the following is a specification.

This invention relates to oven-door indicators.

The object of the invention is to provide a simply-constructed and easily applied and operated device of the above character which may be employed more particularly in connection with culinary operations to denote the length of time articles of food shall remain in an oven, thereby avoiding over or under cooking.

With the above and other objects in view, as will appear as the nature of the invention is better understood, the same consists in the novel construction and combination of parts of an oven-door indicator, as will be hereinafter fully described and claimed.

In the accompanying drawings, forming a part of this specification, and in which like characters of reference indicate corresponding parts, there is illustrated one form of embodiment of the invention capable of carrying the same into practical operation, it being understood that the elements therein exhibited may be varied or changed as to shape, proportion, and exact manner of assemblage without departing from the spirit thereof. In the drawings, Figure 1 is a view in elevation of a cooking-stove exhibiting the device of the present invention applied to the oven-door thereof. Fig. 2 is a view in vertical section taken on the line 2 2, Fig. 1. Fig. 3 is a view in elevation of a portion of the dial on an enlarged scale exhibiting in dotted lines the train of gears by which the hands or pointers are operated.

The device comprises a casing consisting of a front plate 1, a back plate 2, and a rim 3, these parts being constructed of any suitable material and assembled in any manner that may be preferred.

The front plate 1 constitutes a clock-dial and is divided into hours and minutes in the usual manner, the designating characters being im-

pressed or otherwise applied thereto. The back plate is provided with a plurality of ears 4, preferably in this instance two, which are perforated to receive rivets or screws 5, by which the device may be attached to the door of a stove D of any construction.

Suitably journaled in the front and back plates is an arbor 6, one end of which projects beyond the dial and carries a minute-hand 7. The inner end of the arbor adjacent to the back plate has rigidly connected with it a pinion 8, the function of which will presently appear. Loosely mounted upon the arbor is a sleeve 9, which projects outward beyond the dial and carries an hour-hand 10. The sleeve adjacent to the inner face of the dial carries a wheel 11, which meshes with a pinion 12, carried by one end of an arbor 13, journaled at its terminals in suitable bearings in the front and back plates, the opposite end of the shaft having rigidly connected with it a combined spur and bevel gear 14, the spur-gear being in mesh with the pinion 8. The beveled-tooth portion 15 of the gear 14 is engaged by a bevel-gear 16, carried by one end of a stem or rod 17, the other end of which projects through the rim and carries a knob or button 18, by which the train of gears may be manipulated. The relative sizes of the gears and pinions are such that when the stem 17 is rotated the hands will traverse the dial at the same relative speed and in the same manner as ordinary clock-hands—that is to say, the minute-hand will make a complete traverse of the dial while the hour-hand is moving one-twelfth of that distance.

As it is essential that means should be provided for exhibiting the placard bearing the name of the article within the oven, the rim is provided, preferably on its upper side, with a channel or gutter 19, which is formed by sinking the groove in the rim, and in this channel thus formed is placed a placard 20, bearing the name of the article being cooked. With each of these devices there will be a plurality of these placards furnished bearing the names of different articles—such as “Pie,” “Fish,” and “Chicken”—and these placards may be readily inserted and removed when necessary.

It will be seen from the foregoing description that although the device of this invention is exceedingly simple of construction it may be readily applied to an oven-door of any  
5 character without requiring any change in the structural arrangement of the latter; furthermore, that by its use proper cooking of any article may be effected without necessitating the frequent opening of the door of the  
10 oven to ascertain the condition of the contained article, which with some food-stuffs is objectionable, as the frequent lowering of the temperature of the oven would be detrimental.

Having thus described the invention, what  
15 is claimed is—

A device of the character described compris-

ing a casing provided on its front with a dial, at its rear with means for attachment to a suitable support and in its rim with a depending channel or cleft to constitute a placard-  
20 holder, hands disposed exteriorly of the dial, a train of gears operatively connected with the hands, and a setting device coacting with one of the gears and projecting laterally from the casing.  
25

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

HENRY E. STELTS.

Witnesses:

JOSEPH FRONAPFEL,

WILLIAM H. STEVENS.