

No. 748,312.

PATENTED DEC. 29, 1903.

E. C. SACHSE.  
FIRE KINDLER.

APPLICATION FILED DEC. 1, 1902.

NO MODEL.

Fig. 1.

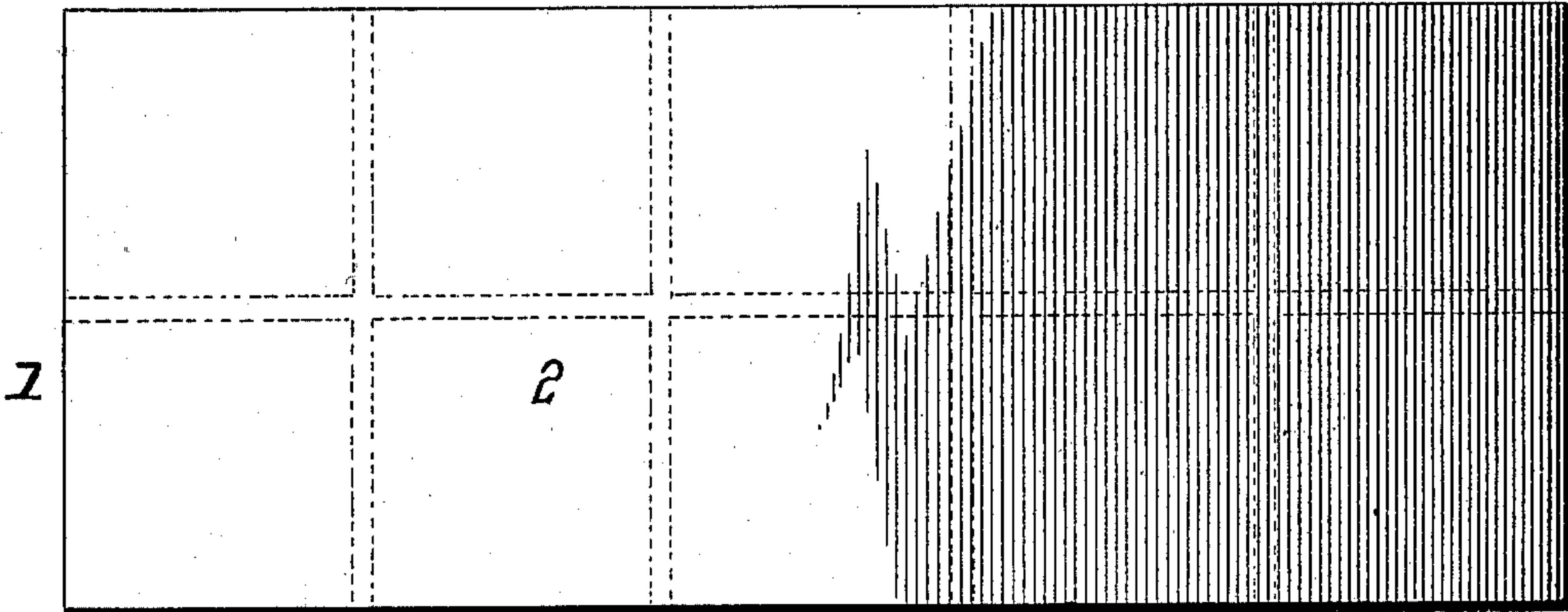


Fig. 2.

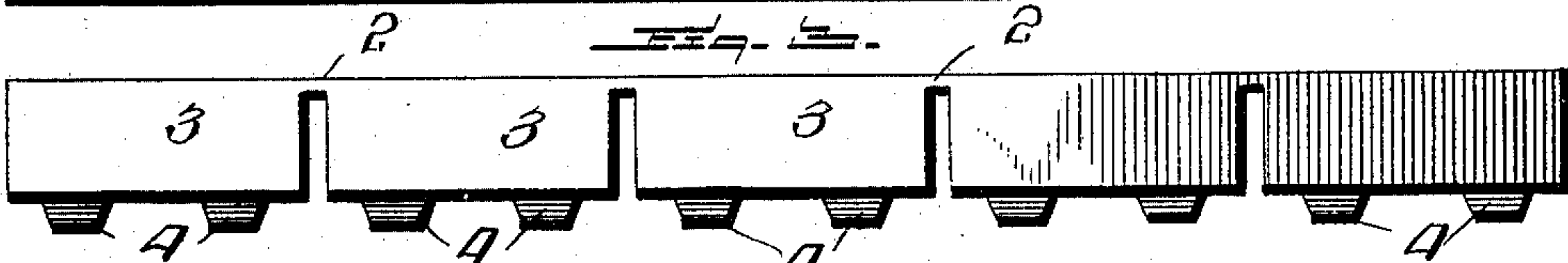
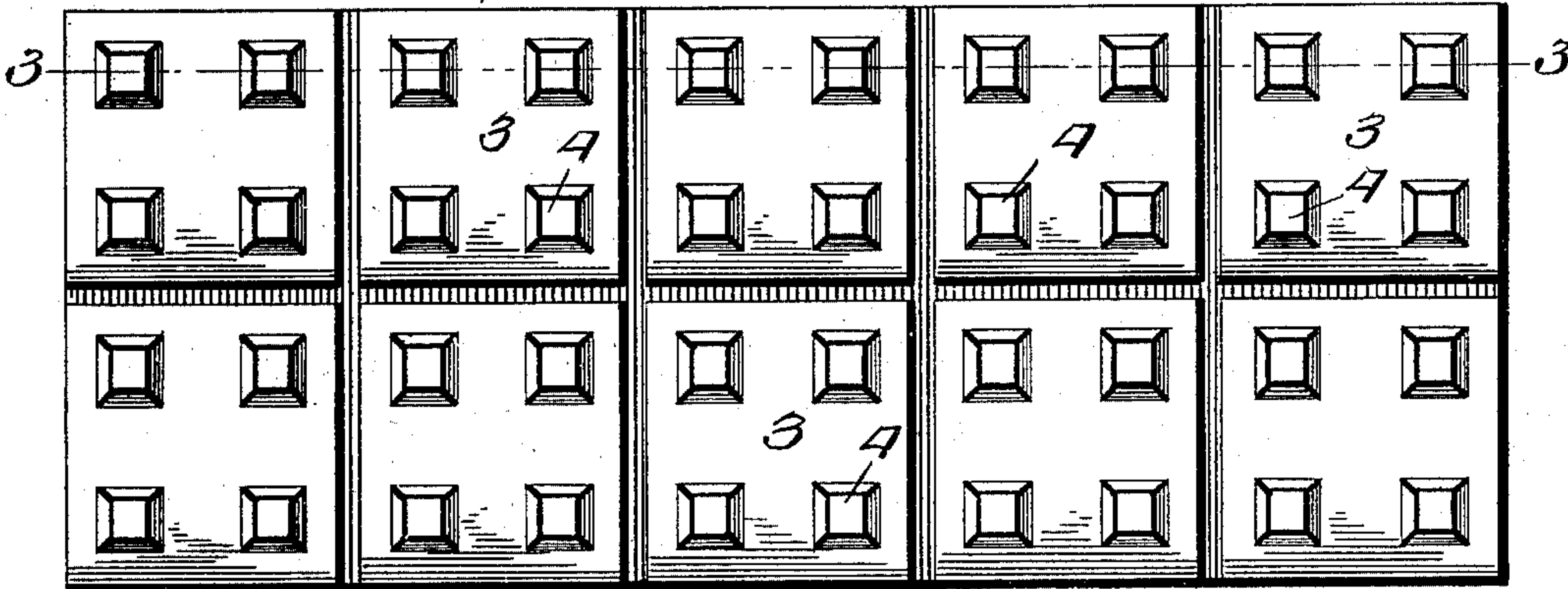


Fig. 4.

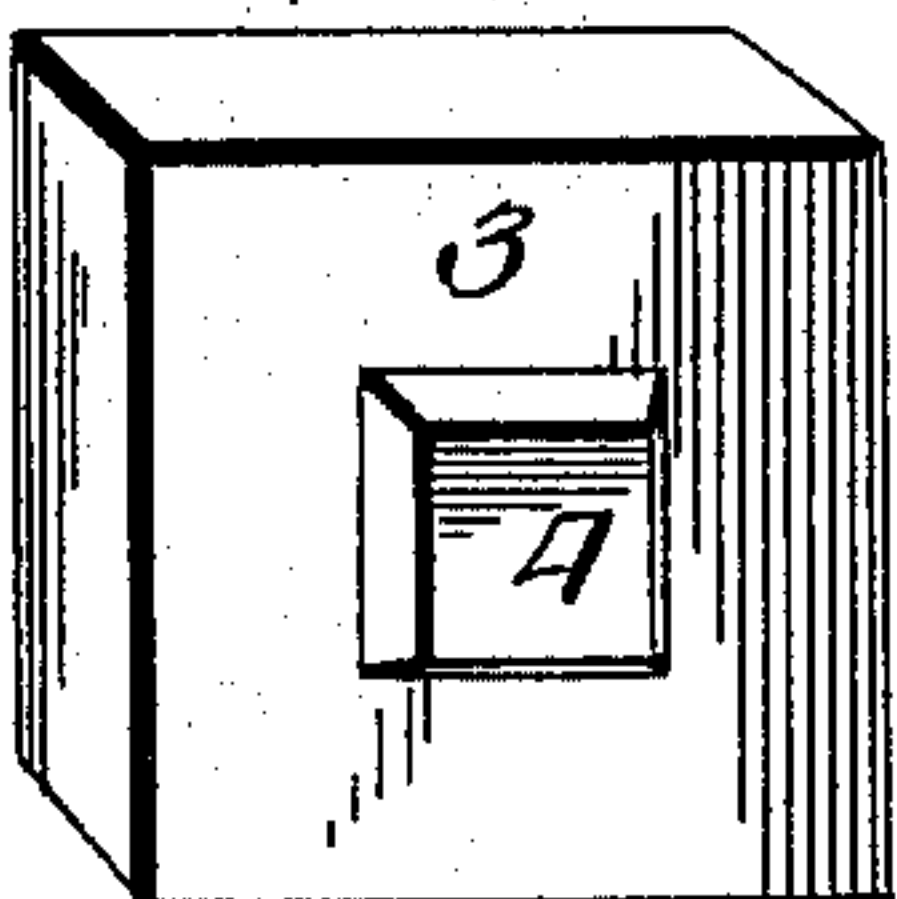


Fig. 5.

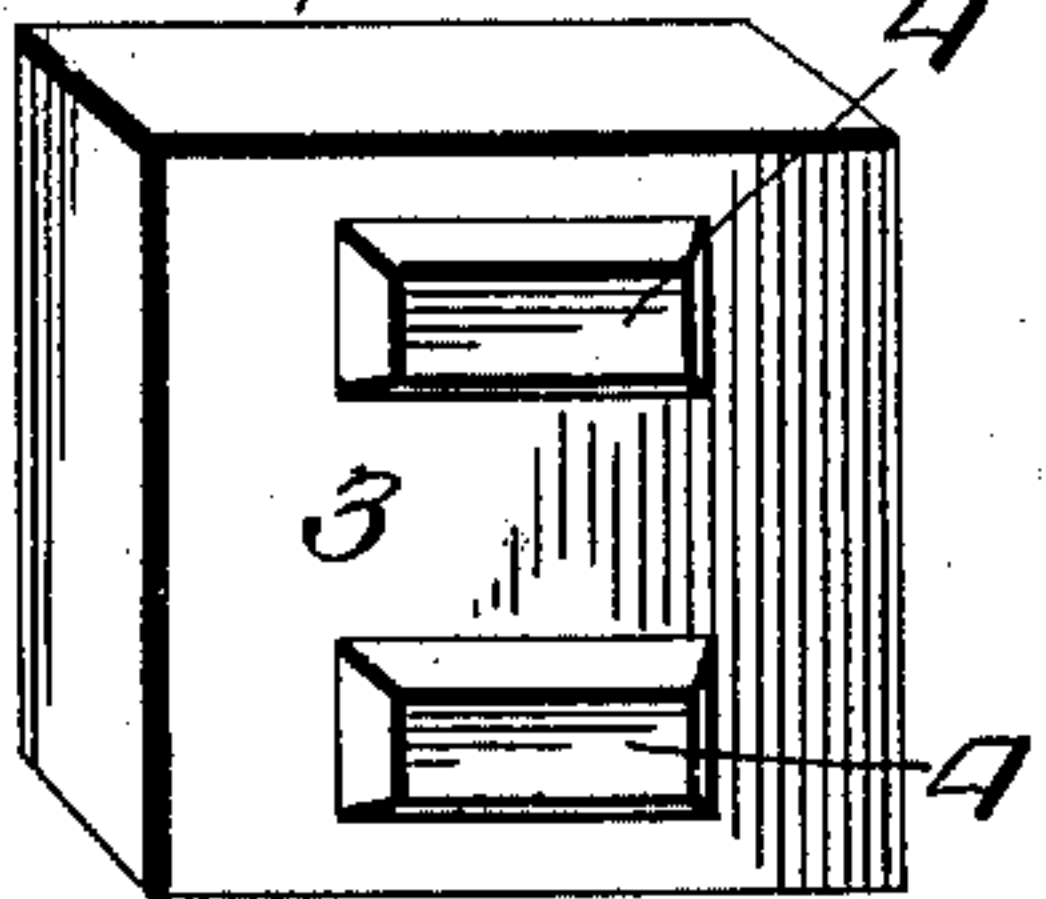


Fig. 6.

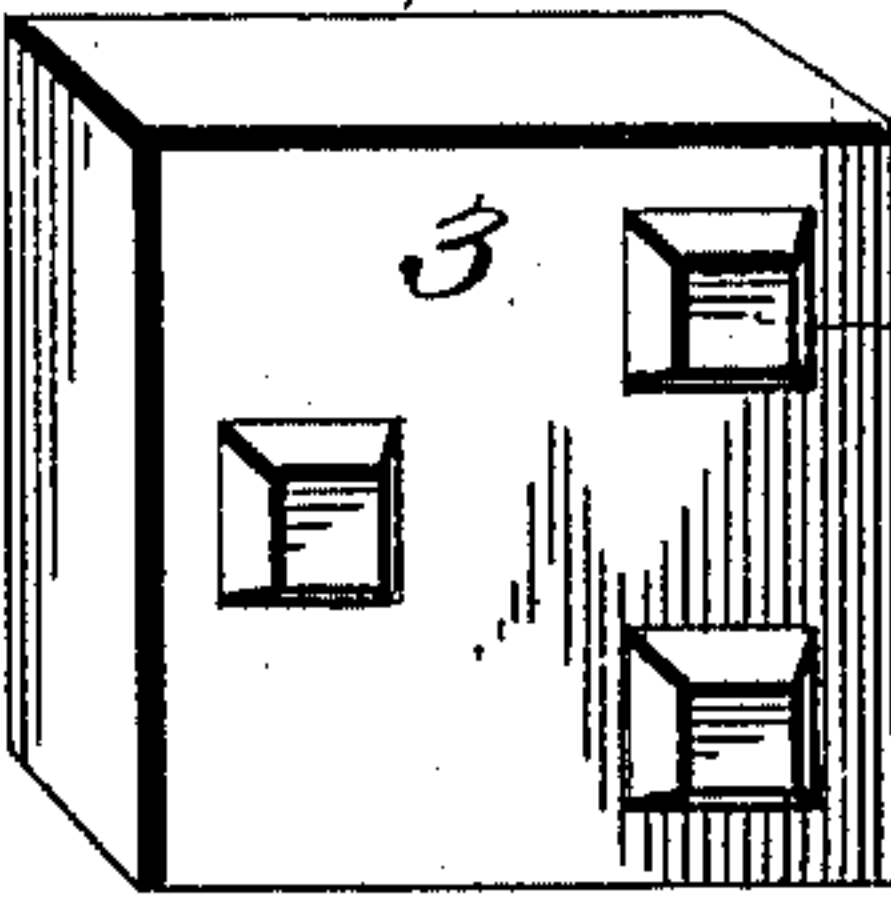
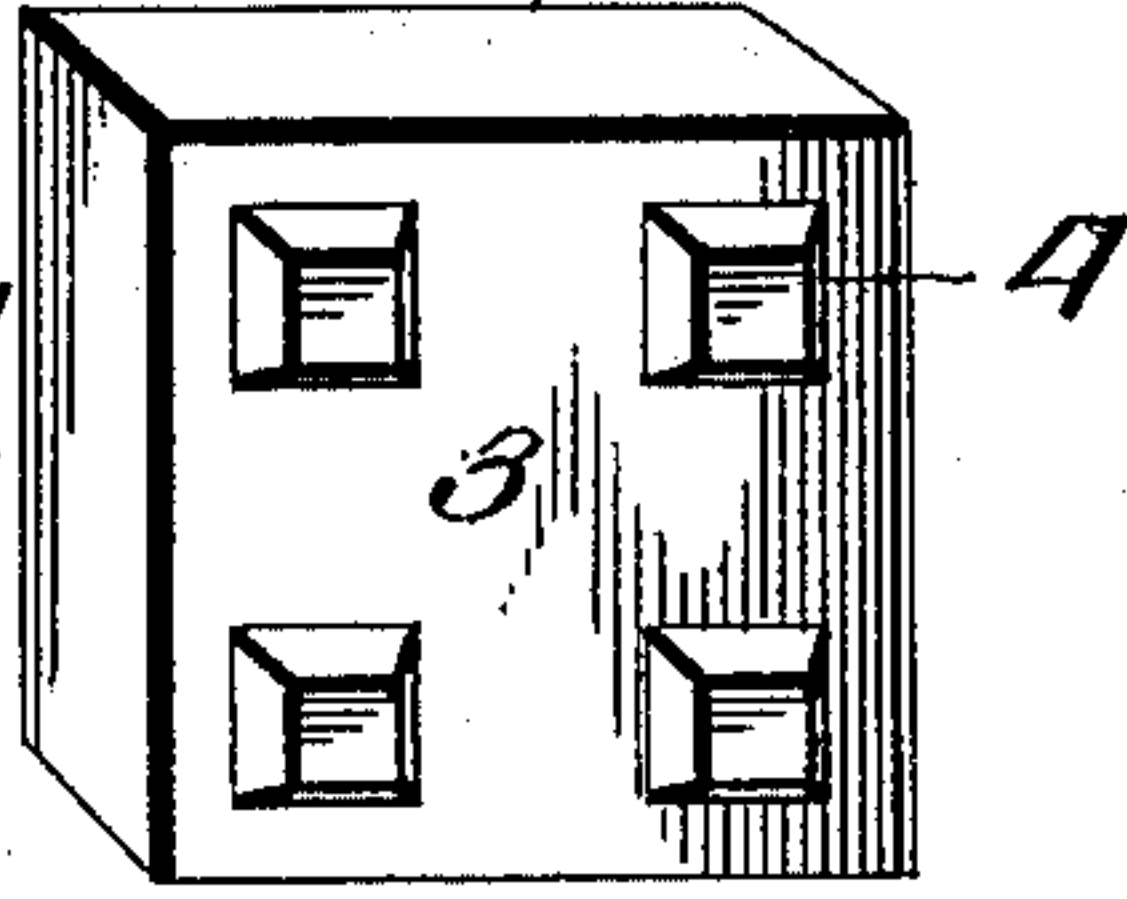


Fig. 7.



WITNESSES:

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# UNITED STATES PATENT OFFICE.

ERNEST C. SACHSE, OF ST. LOUIS, MISSOURI.

## FIRE-KINDLER.

SPECIFICATION forming part of Letters Patent No. 748,312, dated December 29, 1903.

Application filed December 1, 1902. Serial No. 133,472. (No model.)

*To all whom it may concern:*

Be it known that I, ERNEST C. SACHSE, a citizen of the United States, residing at St. Louis, in the State of Missouri, have invented certain new and useful Improvements in Fire-Kindlers; 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.

This invention relates to certain new and useful improvements in fire-kindlers, and has for its object to construct a kindler which is made in a series of blocks or sections that are held together in one cake until such time as it is desired to separate one or more of the cakes from the series for use.

The article of manufacture to which the present invention and application relates is the result of new and improved processes for the manufacture of fire-kindlers, for which I have filed separate applications, and the mold employed in connection with my processes and which is used to shape the kindler has also been made the subject of a separate application, filed June 6, 1902, Serial No. 110,032, and will hence not be specifically described herein.

The kindler or article of manufacture embodied in the present invention consists, briefly, in the cake which is molded so as to be readily separable into sections or blocks, as desired, each section or block having one or more supporting-feet, whereby the body of the kindler block or section is supported above the grate-bars of the furnace and the flames may have more ready access to the body of the kindler.

In describing the invention in detail reference will be had to the accompanying drawings, forming a part of this specification, and wherein like numerals of reference will be employed for designating like parts throughout the different views, in which—

Figure 1 is a top plan view of an entire cake of the kindler as taken from the mold, showing the blocks or sections joined together. Fig. 2 is a bottom plan view of the same. Fig. 3 is a transverse vertical sectional view thereof on line 3 3 of Fig. 2. Fig. 4 is a detail view of a single block or section, showing one supporting-foot. Fig. 5 is a like view

of a single block or section, showing two supporting-feet. Fig. 6 is a like view showing the block or section provided with three supporting-feet, and Fig. 7 is a like view showing the block or section constructed with four supporting-feet.

In the production of my improved kindler I preferably employ a mold having ten or more compartments, so that a like number of blocks or sections of the kindler will be embodied in each entire cake thereof. Of course as many compartments may be employed as may be desired; but in practice I have employed a mold having at least ten compartments.

In the manufacture of my kindler I employ stable-manure, horse-bedding, wood chips, shavings, hay, straw, corncobs, and like materials, which, as has been described in my process applications, are thoroughly mixed, treated to a suitable temperature, and also mixed with resin, oil, tar, pitch, or rosin alone, if desired, and then subjected to heavy pressure within the mold, so as to solidify the same.

I may employ a mixture of stable-manure and powdered resin alone, subjecting the same to heat and also to pressure within the mold after being treated in the same manner as though I employ one or more of the ingredients named in connection with the stable-manure.

In the accompanying drawings I have shown a cake 1 as it is received from the mold. This cake is shown as comprising ten sections or blocks, preferably all held together by the thin web or portion 2 of the cake, the mold in practice being so constructed as to form this thin portion, and thus hold the several blocks or sections together. It will be evident that the sections or blocks may be so molded that each will be separate from the others; but I prefer to hold the series together by the binding web or rib 2, as described. Each cake, as stated, is composed of several blocks or sections, and each of these blocks or sections 3 is provided on its underneath face with one or more feet 4, preferably tapered, as shown, so that the walls thereof are inclined. These feet are formed by depressions in the bottom plate of the mold, and each block or section of the



cake formed in one mold is preferably provided with the inclined walls, so that the flames will readily rise around the same and have ready access thereto. It will be evident that the supporting-feet may be dispensed with or that one or more of the supporting-feet may be provided on each block or section and that where only one is employed the same may be made larger than where two or more are formed on each block or section, the object of these feet being to support the main body of the kindler above the grate-bars in order that the fire may have more ready access to the body of the kindler.

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

In a fire-kindler of the character set forth, the combination of a plurality of molded cakes of inflammable material, each cake being separated from the other of the series by means of a cut-away portion, the cakes being held integral by means of the molded material between the same, and outwardly-extending lugs formed upon the underneath surfaces of said cakes, said lugs or feet being formed on the faces entirely within the outer periphery thereof, substantially as described.

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

ERNEST C. SACHSE.

Witnesses:

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