

No. 768,719.

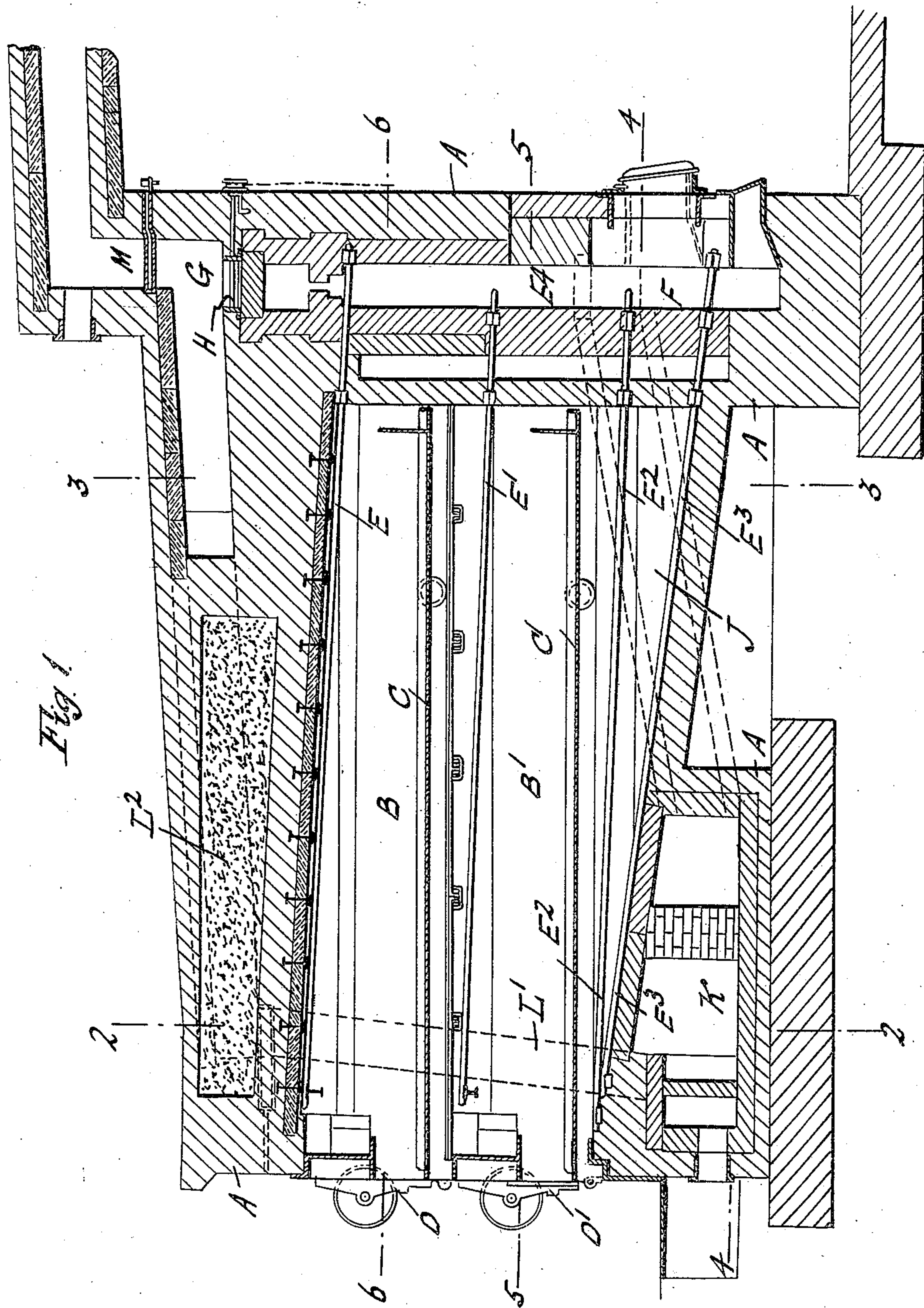
PATENTED AUG. 30, 1904.

G. S. BAKER.  
BAKER'S OVEN.

APPLICATION FILED FEB. 15, 1904.

NO MODEL.

6 SHEETS—SHEET 1.



Witnesses

*A. J. Hadden*  
*E. M. Moore*

Inventor

*George Samuel Baker*  
by his Attorney *R. H. Hadden*



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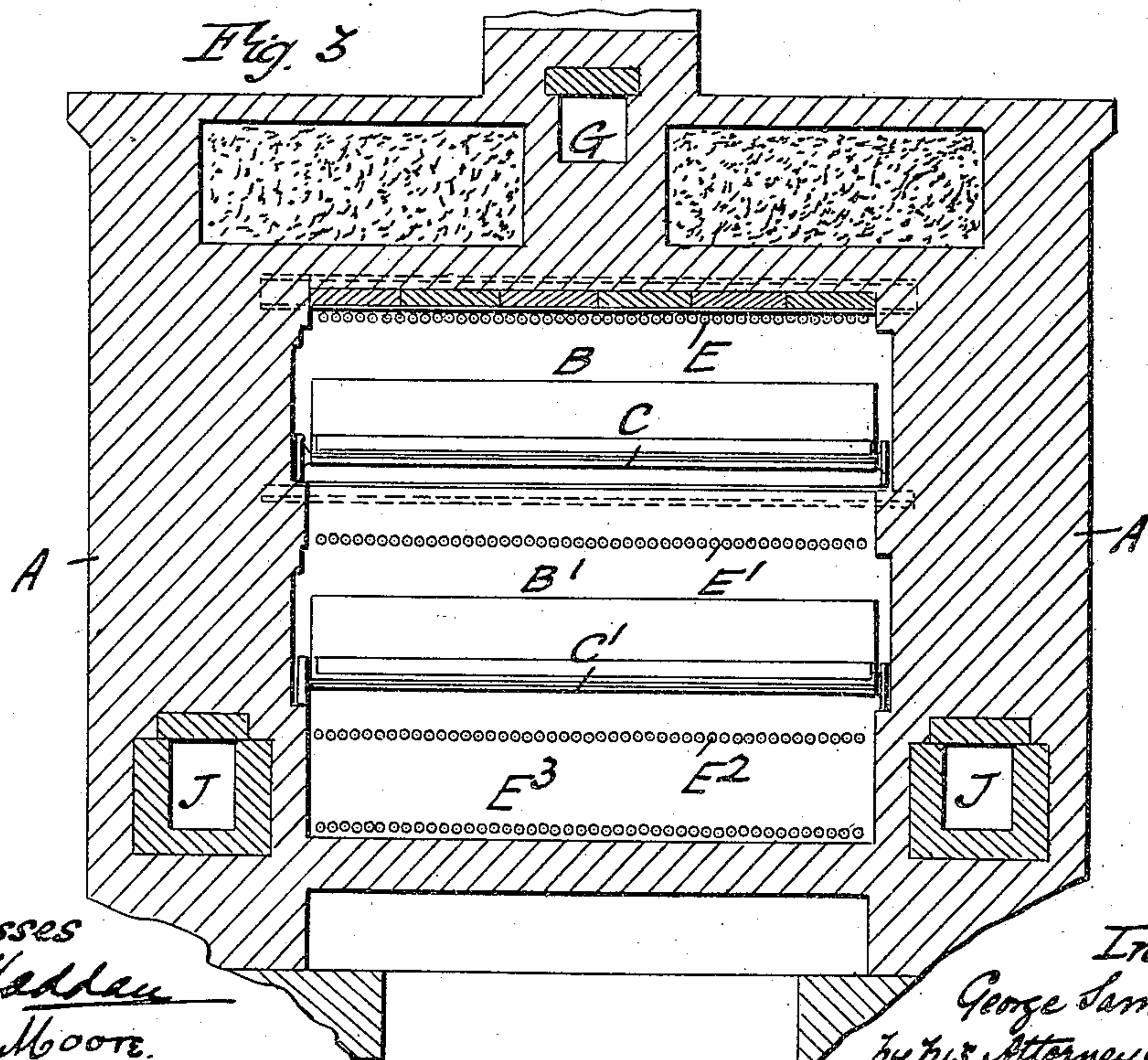
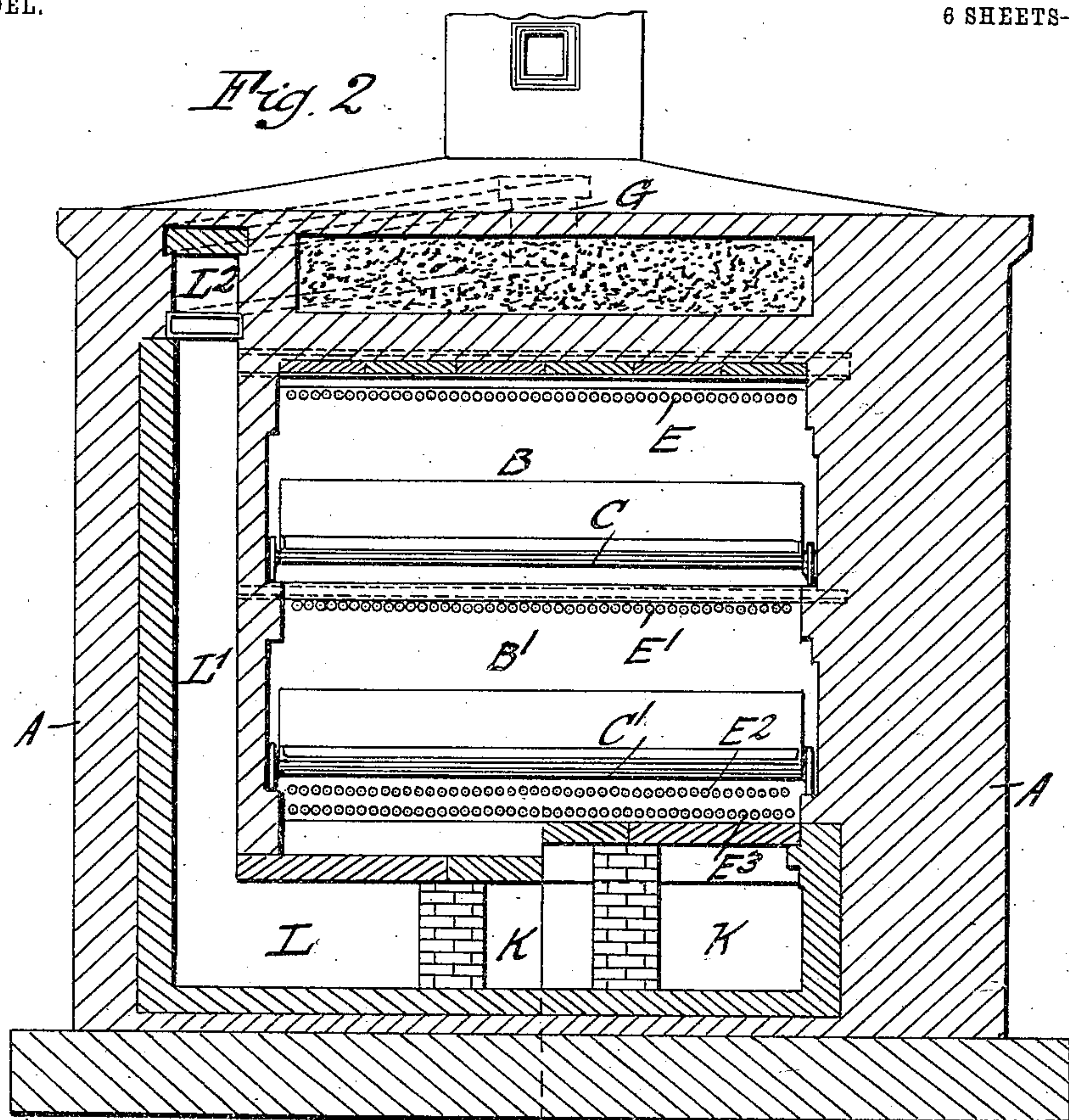
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6 SHEETS—SHEET 2.



Witnesses  
*A. J. Hadden*  
*E. M. Moore.*

Inventor  
*George Samuel Baker*  
by his Attorney *Hadden*



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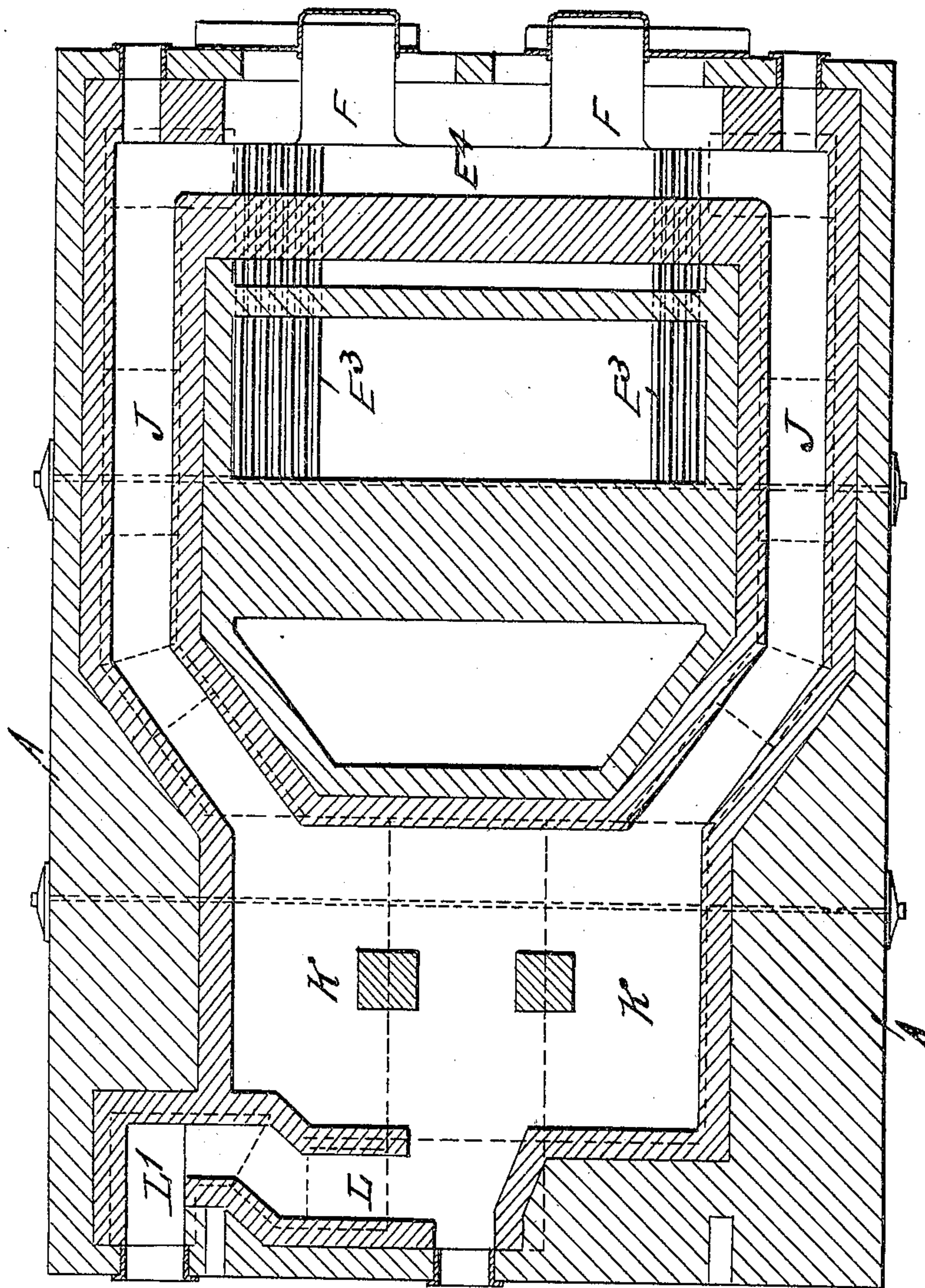
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6 SHEETS—SHEET 3.

Fig. 4



Witnesses

*A. J. Hadden*  
E. M. Moore.

Inventor

George Samuel Baker.  
by his Attorney *A. J. Hadden*

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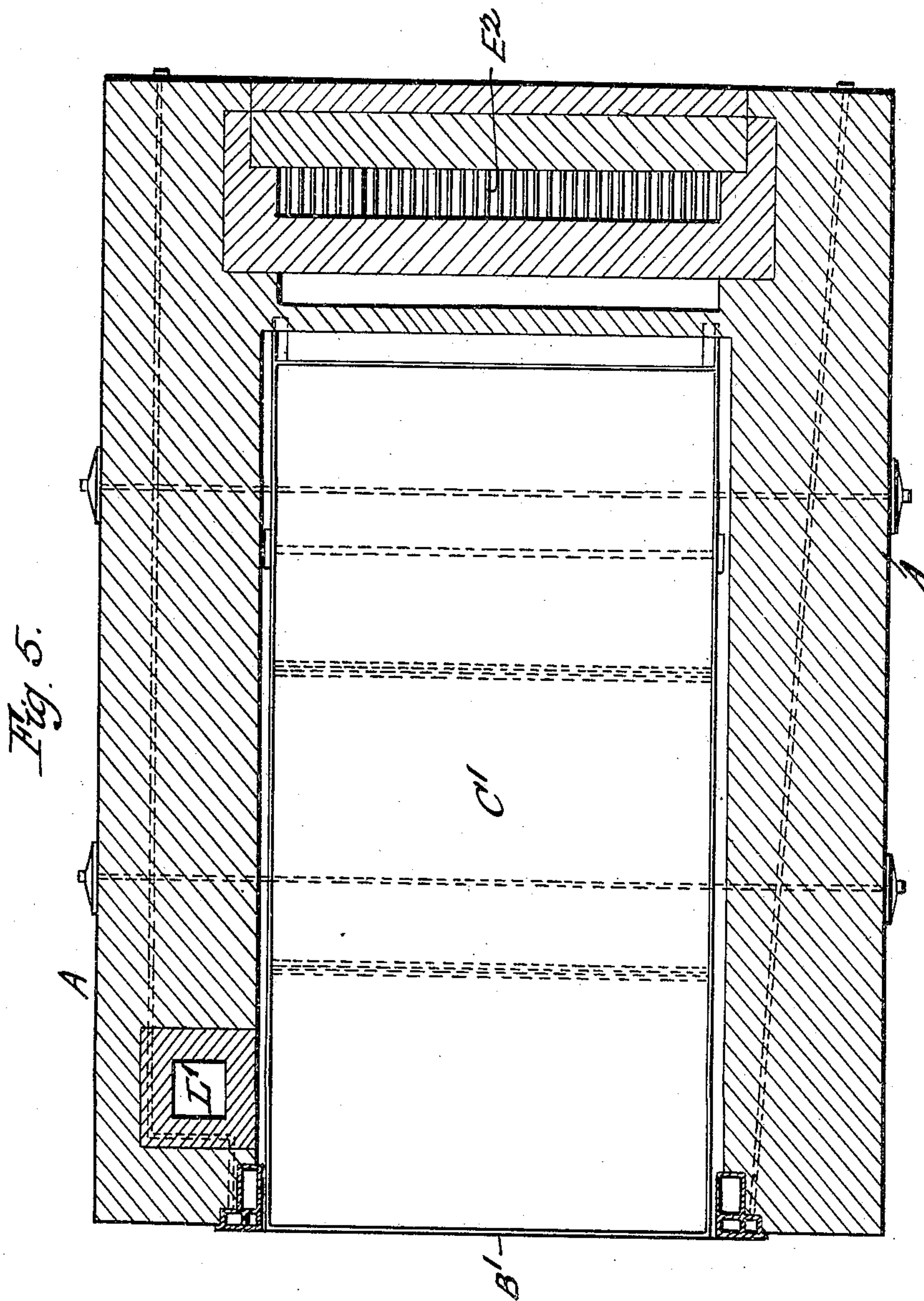
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NO MODEL.

6 SHEETS—SHEET 4.



Witnesses  
*A. J. Kellum*  
E. M. Moore

Inventor  
George Samuel Baker  
by his Attorney *R. H. H. H.*



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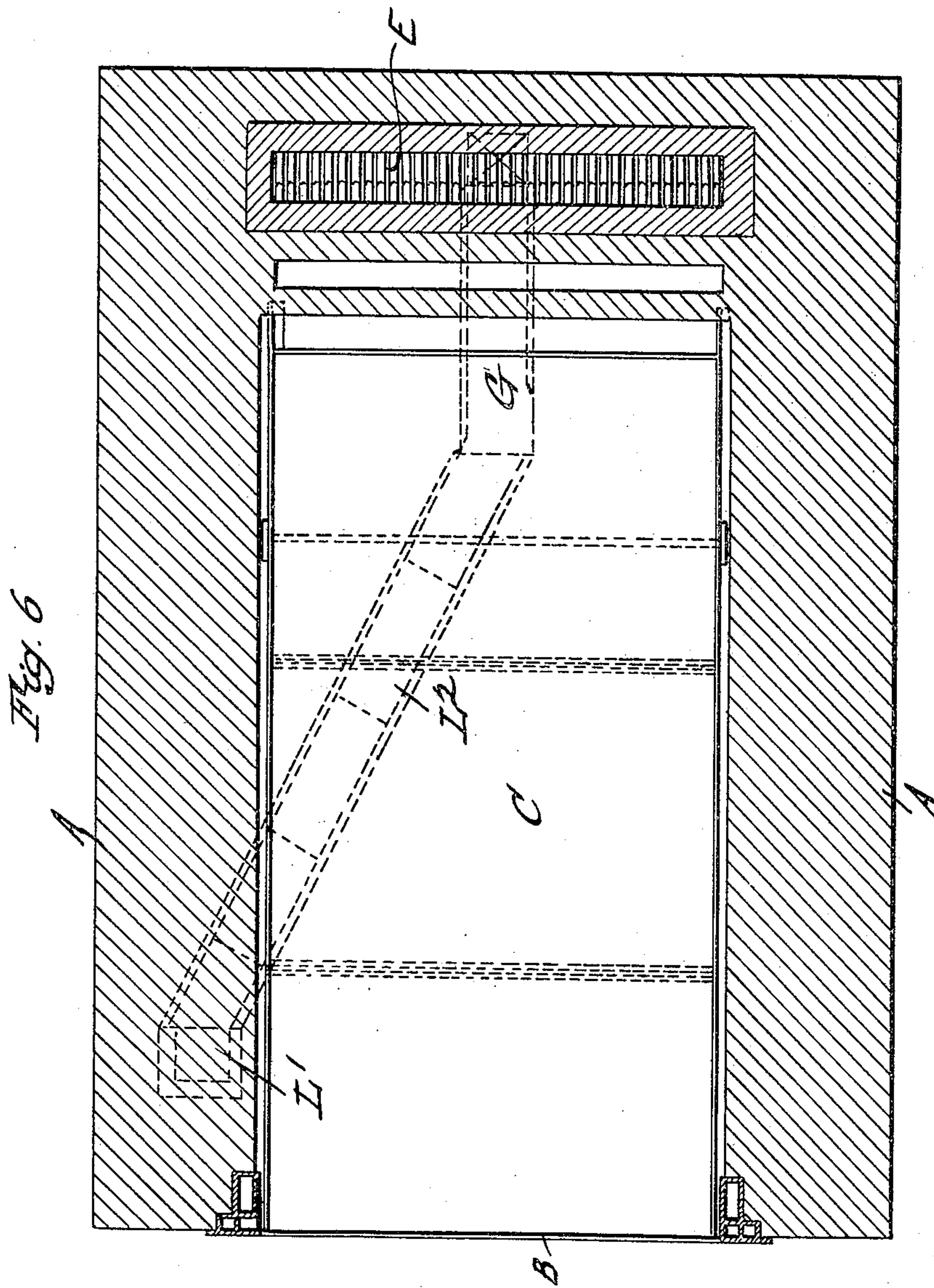
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APPLICATION FILED FEB. 15, 1904.

NO MODEL.

6 SHEETS—SHEET 5.



Witnesses  
*A. J. Hadley*  
*E. M. Moore*

Inventor  
*George Samuel Baker*  
by his Attorney *R. Hadley*

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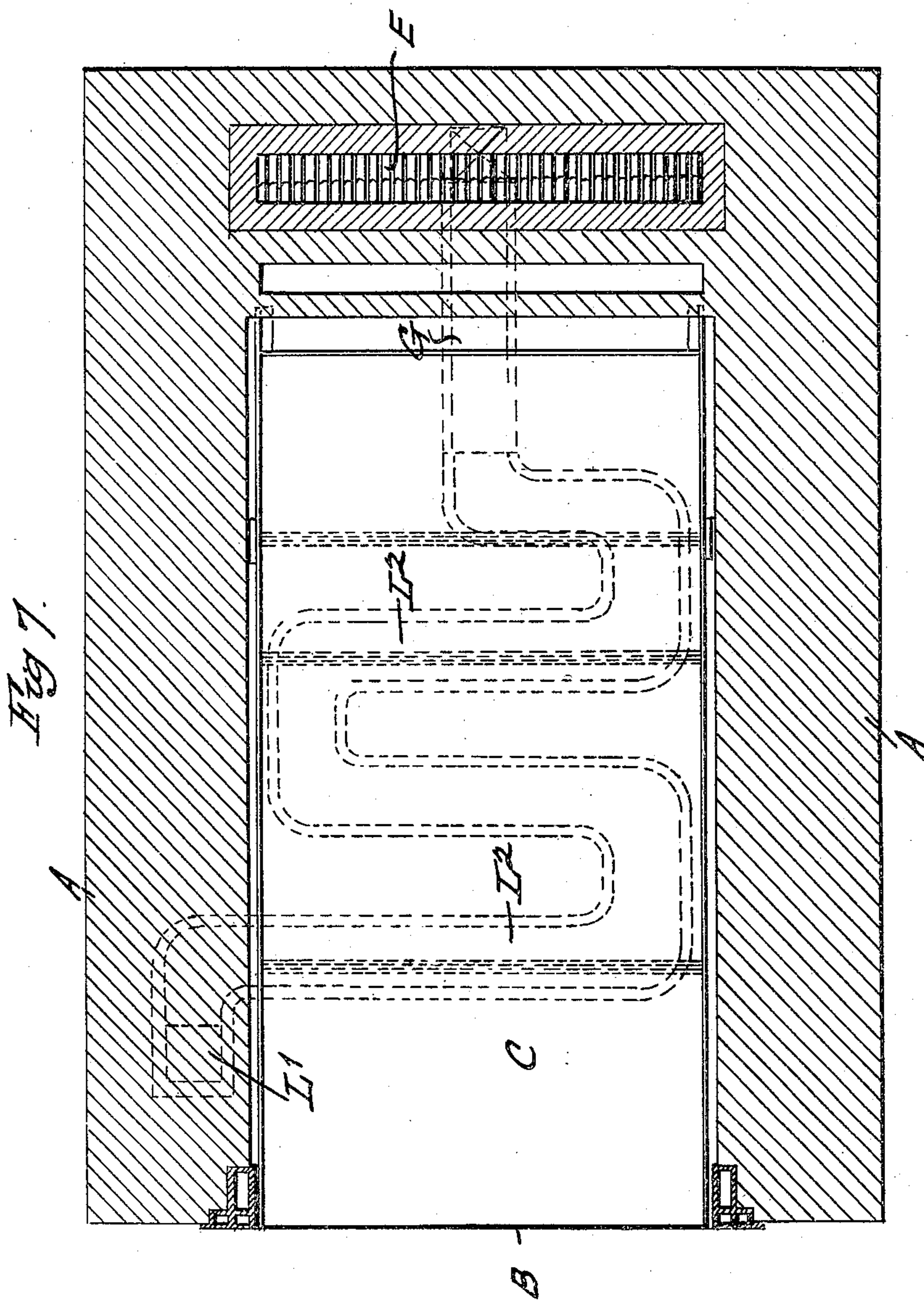
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APPLICATION FILED FEB. 15, 1904.

NO MODEL.

6 SHEETS—SHEET 6.



Witnesses

A. J. Madden  
E. M. Moore.

Inventor

George Samuel Baker  
by his Attorney R. H. Madden



# UNITED STATES PATENT OFFICE.

GEORGE SAMUEL BAKER, OF WILLESDEN JUNCTION, ENGLAND.

## BAKER'S OVEN.

SPECIFICATION forming part of Letters Patent No. 768,719, dated August 30, 1904.

Application filed February 15, 1904. Serial No. 193,684. (No model.)

*To all whom it may concern:*

Be it known that I, GEORGE SAMUEL BAKER, a subject of the King of England, residing at Willesden Junction, England, have invented certain new and useful Improvements in Bakers' Ovens, of which the following is a specification.

This invention relates to bakers' ovens heated by Perkins's tubes; and the object of the invention is to provide means for enabling such tubes to be heated to a higher temperature when a higher temperature is required.

The annexed drawings illustrate the invention as applied to a double-decker draw-plate oven with rear firing, Figure 1 being a vertical section of such an improved oven; Fig. 2, a cross-section thereof on line 2 2, Fig. 1; Fig. 3, a cross-section on line 3 3 of Fig. 1; Figs. 4, 5, and 6, horizontal sections on lines 4 4, 5 5, and 6 6 of Fig. 1, respectively; and Fig. 7, a similar section on line 6 6, Fig. 1, showing a modified arrangement of upper flue.

A is the structure of the oven; B B', the upper and lower oven-chambers.

C C' are draw-plates; D D oven-doors.

E E' E<sup>2</sup> E<sup>3</sup> are sets of Perkins's tubes; F F, combustion-chambers of the furnace.

E<sup>4</sup> is a wide vertical flue leading directly upward in the rear wall of the oven from the combustion-chambers F F to the flue G, with which it has controllable communication through the damper H. Into this flue E<sup>4</sup> the

closed ends of the tubes E E' E<sup>2</sup> E<sup>3</sup> project to be heated in the known manner. In the present invention a branch flue J leads out at one or both sides from the lower part of flue E<sup>4</sup> to a chamber K, Fig. 4, under the front part of the lower oven, and thence a flue L leads laterally to the side of the oven, where it ascends at L' to the top of the oven, whence it is carried at L<sup>2</sup> obliquely, Fig. 6, or in a serpentine course, Fig. 7, into the flue G, before mentioned, which leads to the shaft.

M is a damper in flue G.

The chamber K heats the tubes E<sup>2</sup> and E<sup>3</sup> immediately above it, and thus brings these tubes to a higher temperature.

I claim—

A baker's oven having in combination with oven-chambers, Perkins's tubes and furnace, a damper-controlled flue rising directly from said furnace to the shaft-flue for heating the ends of said tubes, a chamber beneath said tubes in the base of the oven near the end remote from the furnace, a branch flue from the furnace to said chamber, a rising flue from said chamber in the side of the oven and a return-flue from said rising flue to the shaft-flue for the purpose set forth.

In witness whereof I have signed this specification in the presence of two witnesses.

GEORGE SAMUEL BAKER.

Witnesses:

H. D. JAMESON,  
A. NUTTING.