

No. 889,236.

PATENTED JUNE 2, 1908.

H. E. JANES.
OVEN FOR RANGES.

APPLICATION FILED APR. 23, 1907.

2 SHEETS—SHEET 1.

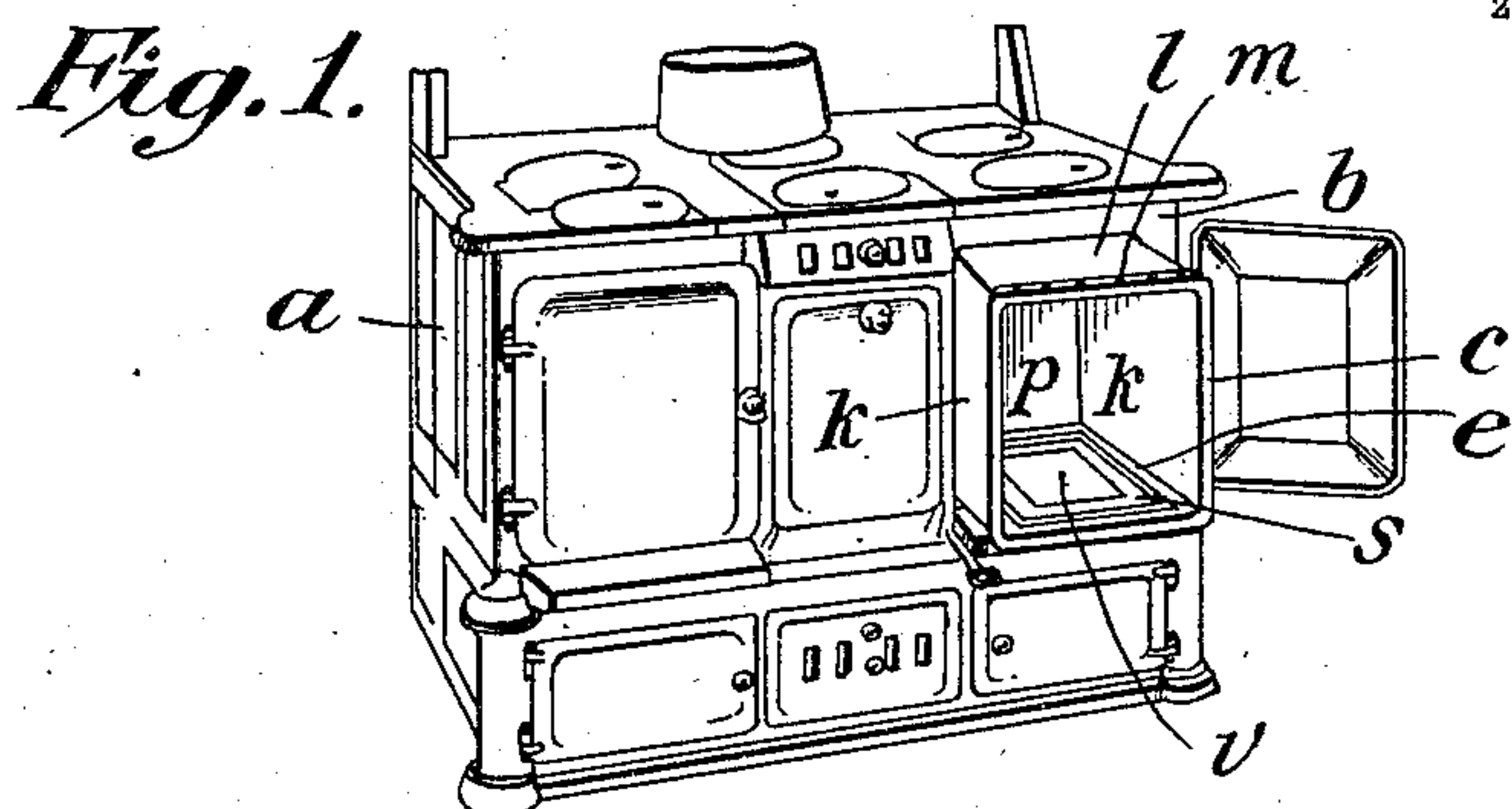
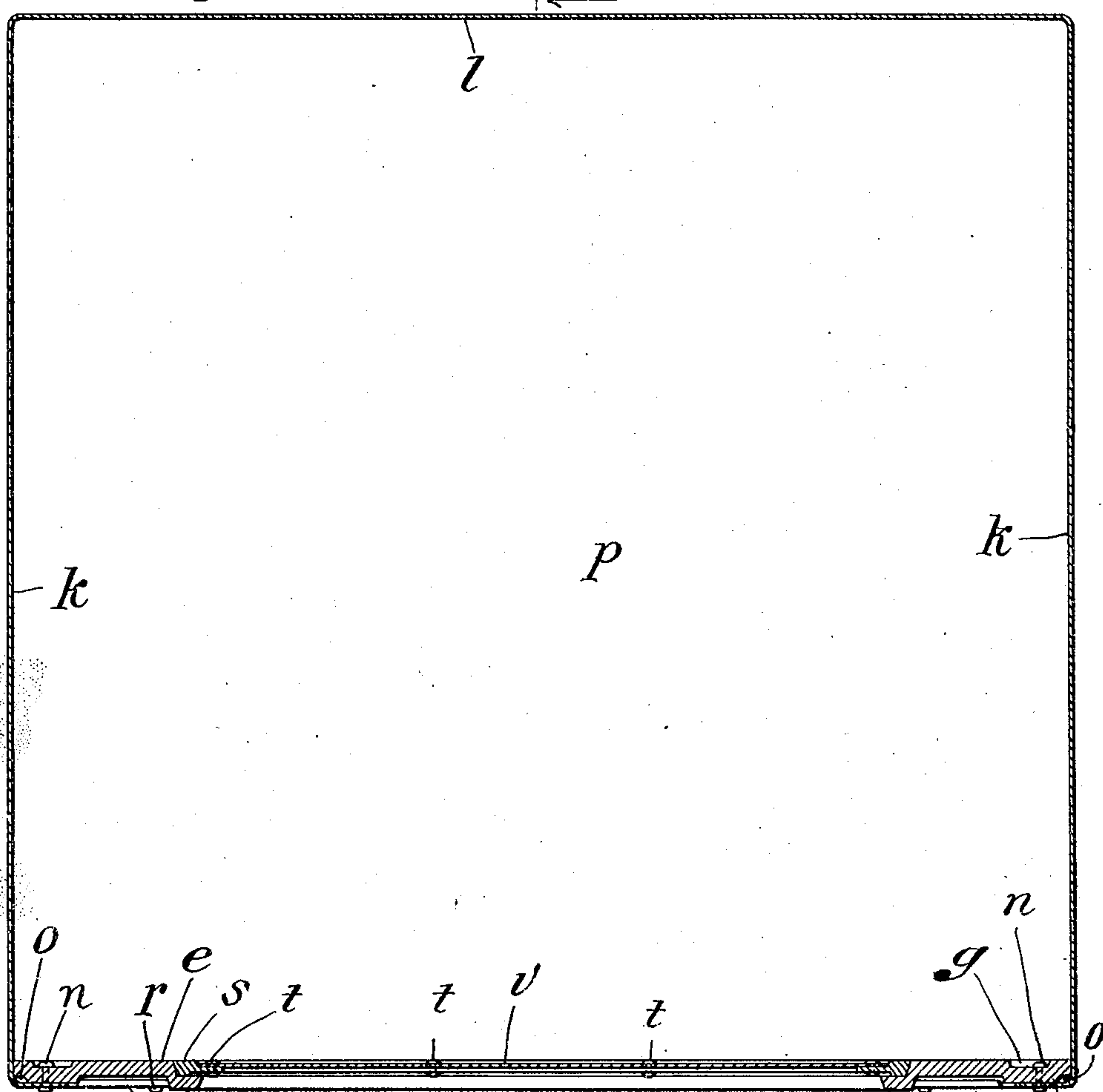


Fig. 2.



Attest:

Edgeworth
M. J. Jones

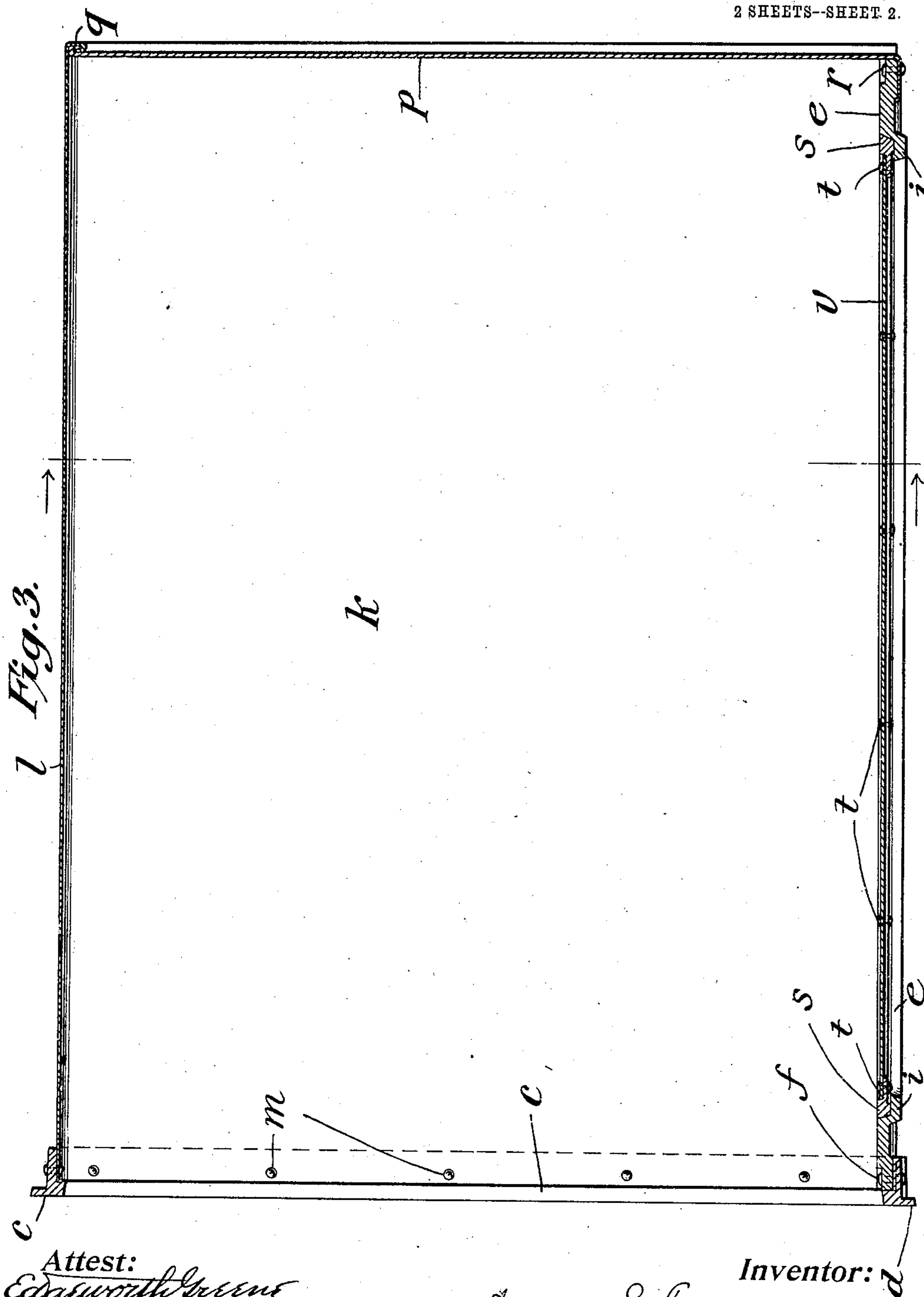
Inventor: *Henry E. Janes*
by *Redding, Kiddle & Purdy* Attys.

No. 889,236.

PATENTED JUNE 2, 1908.

H. E. JANES.
OVEN FOR RANGES.
APPLICATION FILED APR. 23, 1907.

2 SHEETS--SHEET 2.



Attest:
Edgeworth
M. W. Jones

Inventor: *H. E. Janes*
by *Redding, Kiddle & Jones*
Attys.

UNITED STATES PATENT OFFICE.

HENRY E. JANES, OF NEW YORK, N. Y., ASSIGNOR, BY MESNE ASSIGNMENTS, TO JANES & KIRTLAND, OF NEW YORK, N. Y., A CORPORATION OF NEW YORK.

OVEN FOR RANGES.

No. 889,236.

Specification of Letters Patent.

Patented June 2, 1908.

Application filed April 23, 1907. Serial No. 369,741.

To all whom it may concern:

Be it known that I, HENRY E. JANES, a citizen of the United States, residing in the borough of Manhattan, of the city of New York, in the State of New York, have invented certain new and useful Improvements in Ovens for Ranges, of which the following is a specification, reference being had to the accompanying drawings, forming a part hereof.

Ovens of ranges are sometimes made removable in order that access may be had to the flues of the range for purposes of cleaning and repair. Such ovens, in order that they may be handled are made with a front frame of cast iron and a body, including top, sides, bottom and back, of sheet steel. It is not always easy for a householder to remove such an oven even for the purpose of cleaning out the bottom flue, beneath the oven, which quickly fills up with dust, and moreover, the bottom frequently becomes warped and uneven and therefore a source of annoyance to the cook. In other ranges, in which the entire oven is made of cast metal plates, the oven is usually so fastened in place that, especially after long use, it cannot be removed except by a mechanic, and then only with considerable difficulty. Such ovens are therefore sometimes provided with a removable plate in the bottom so that the bottom flue can be at least partially cleaned out when necessary, although the entire oven must still be removed in order to give access to all parts of the flues about it, especially when repairs are to be made.

It is the object of the present invention to so improve the construction of range ovens as to combine the advantages of both kinds of ovens above referred to and to eliminate the disadvantages of both. In accordance with the invention, therefore, the improved oven is provided with a cast metal or other suitable front frame, a cast metal or other suitable bottom frame, a removable bottom plate, and a sheet metal body.

The invention will be more particularly described hereinafter with reference to the accompanying drawings in which it is illustrated and in which—

Figure 1 is a view in perspective of a range equipped with the improved oven, the oven door being shown as open and the oven partly withdrawn. Fig. 2 is a view of the improved oven in vertical cross section. Fig.

3 is a view of the improved oven in vertical longitudinal section.

Ovens of the improved construction can be applied to ranges of any ordinary construction and the details of such construction, therefore, need not be particularly described herein. There is shown in Fig. 1 of the drawings a range *a*, of ordinary construction, having the usual front frame *b* which has an opening of such size and dimensions as to receive the oven. The latter, as shown generally in Fig. 1 and more particularly in Figs. 2 and 3, has a front frame *c*, of cast iron or other suitable material, of such dimensions as to fit properly in the opening in the front frame *b* of the range, preferably having a lip *d* to overlap the front frame. A bottom frame *e*, also of cast iron or other suitable metal, is secured to the front frame *c* at the bottom of the latter, as by rivets at *f*. It is preferably provided in its upper surface with a longitudinal groove or recess *g* and on its under side with a corresponding rib *h*. It is also provided about its inner edge with a dropped lip *i* to form a seat for the removable bottom as hereinafter described. The two sides *k*, *k* and top *l* of the oven are preferably formed of a single piece of sheet metal, properly shaped and secured to the front frame *c*, inside of the same, as by rivets *m*, and to the bottom frame *e*, as by rivets *n*. The edges are brought under the frame *e*, a putty groove being thus formed at *o*. The back *p*, also of sheet metal, is secured to the top and sides, as by double seaming at *q*, and is bent under the rear side of the frame *e* and secured, as by rivets *r*. The bottom plate consists of a frame *s* of cast metal or other suitable material, fitted to the seat *i* in the frame *e*, and having secured to it, as by rivets *t*, a bottom sheet *v* of sheet metal.

The improved oven, constructed as above described, has the desirable qualities of lightness and easy removability, which are characteristic of the ordinary sheet iron oven, and the bottom plate, comprising the frame *s* and sheet *v*, can be easily removed when necessary to permit cleaning of the bottom flue. Furthermore, the bottom plate, although formed chiefly of sheet metal, having a frame of cast metal and being free to expand and contract in its seat in the bottom frame *c*, does not buckle or warp in continued use, but remains always flat. It will be obvious,

therefore, that the advantages of the sheet metal oven, in point of cheapness of construction, lightness and easy removability for purposes of repair are combined with the advantages of the ordinary cast or wrought iron oven in the easy removability of the bottom plate and of its freedom from warping.

I claim as my invention:

10 The combination with a range of a removable oven, comprising a stiff metal front frame, a stiff metal bottom frame secured to the bottom of the front frame, a sheet metal

body secured to the inside of the front frame and to the outside of the bottom frame and a removable bottom seated in the bottom frame and consisting of a stiff metal frame and a sheet metal bottom secured thereto. 15

This specification signed and witnessed this 18th day of April, A. D. 1907.

HENRY E. JANES.

Signed in the presence of—

W. B. GREELEY,
E. J. KRUGER.