

(No Model.)

H. J. HAIGHT.

BROODER.

No. 354,549.

Patented Dec. 21, 1886.

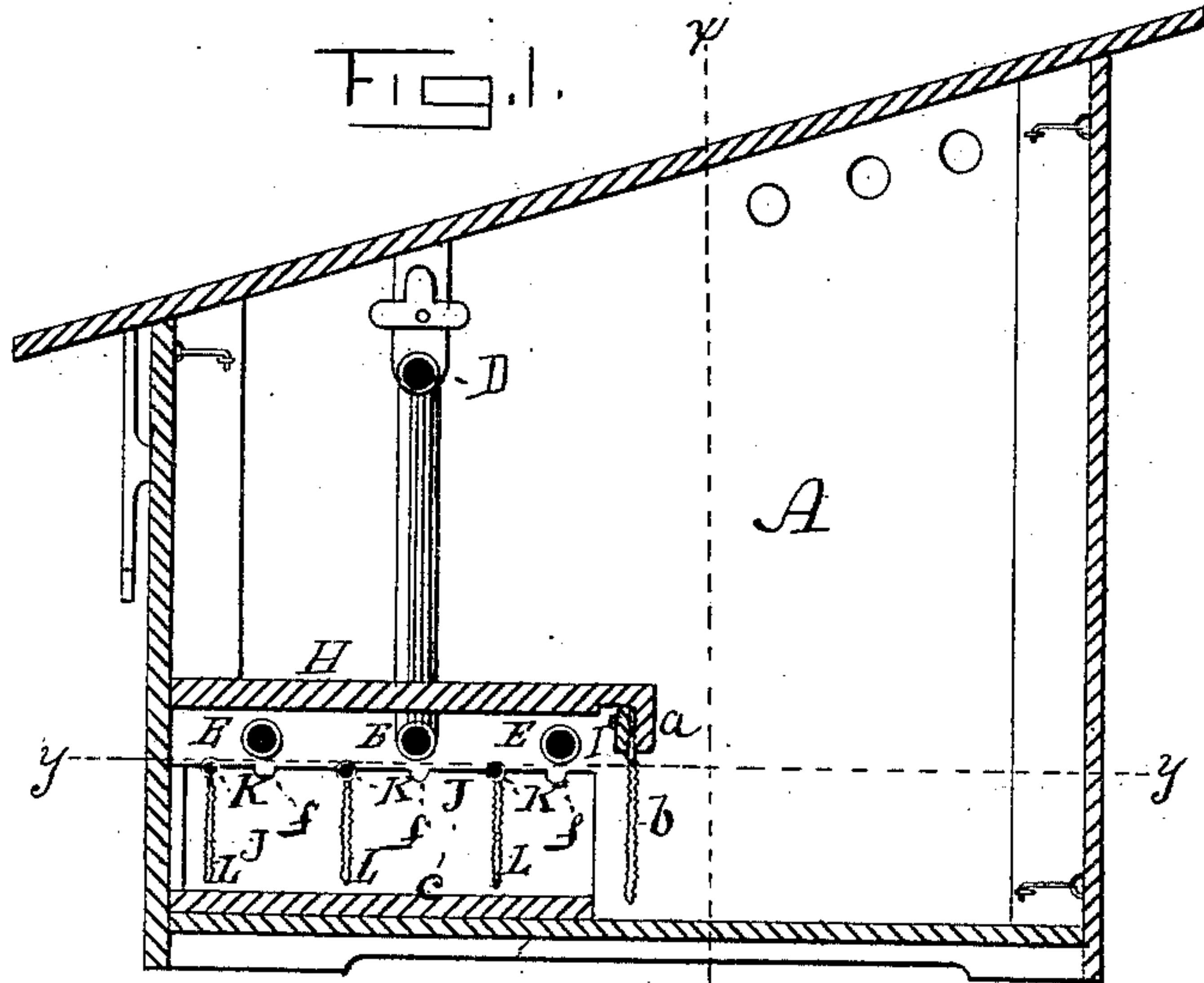


FIG. 2.

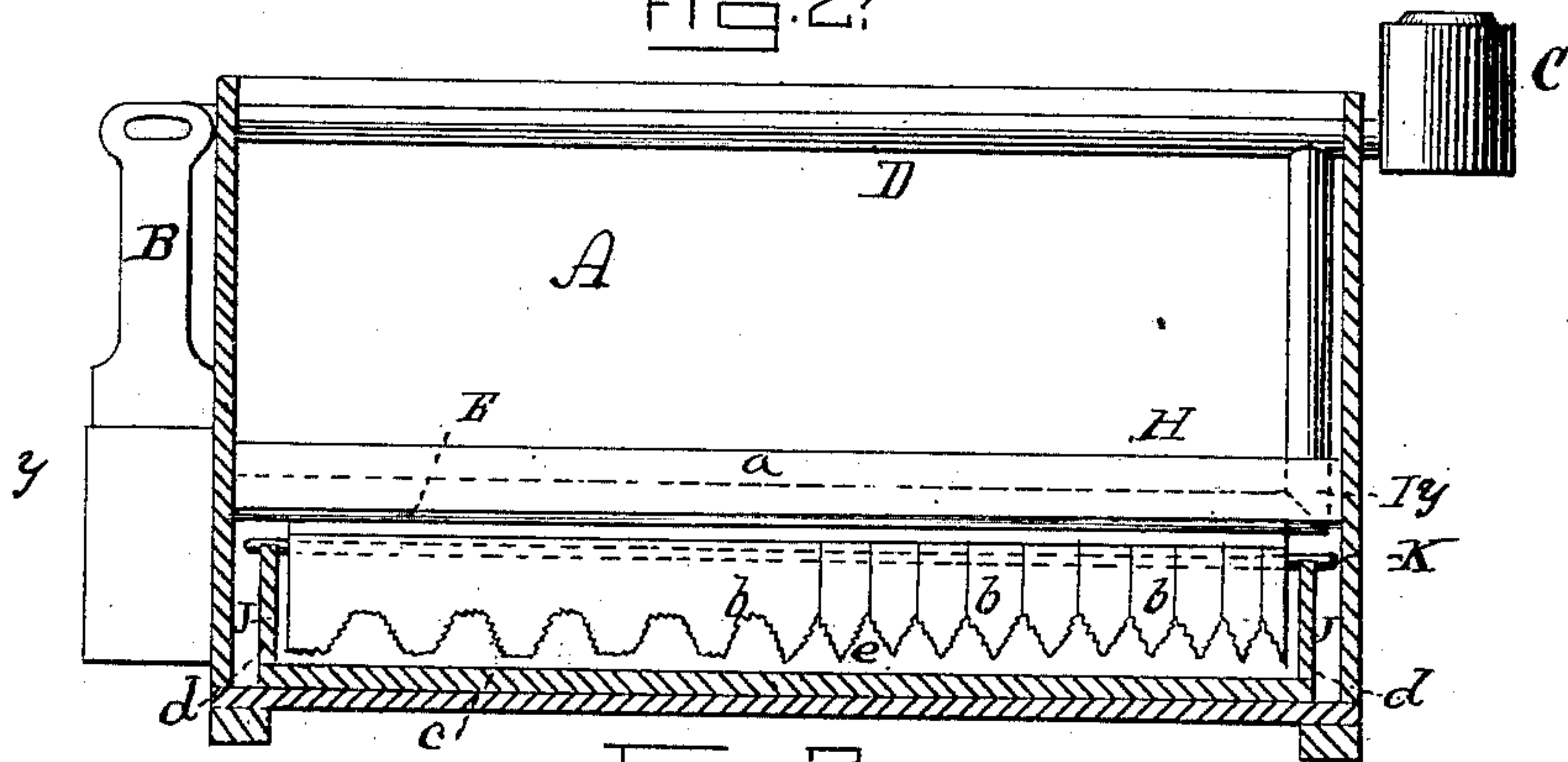
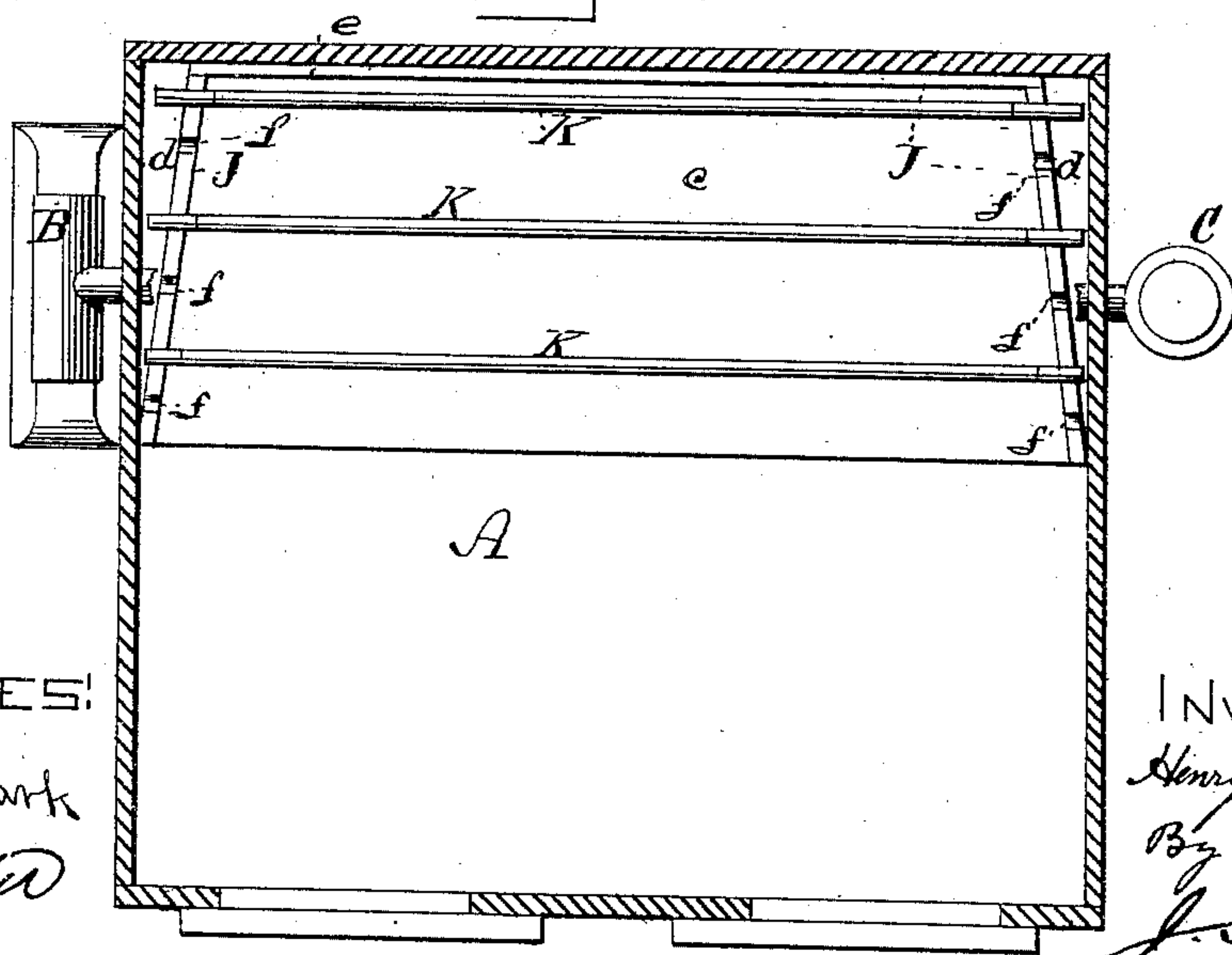


FIG. 3.



WITNESSES:

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UNITED STATES PATENT OFFICE.

HENRY J. HAIGHT, OF NEW YORK, N. Y.

BROODER.

SPECIFICATION forming part of Letters Patent No. 354,549, dated December 21, 1886.

Application filed September 30, 1885. Serial No. 178,664. (No model.)

To all whom it may concern:

Be it known that I, HENRY J. HAIGHT, of the city of New York, in the county of New York and State of New York, have invented
5 an Improvement in Brooders; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, making part of this specification.

10 Figure 1 is a vertical section from front to rear of a poultry-coop provided with my improved brooder; Fig. 2, a longitudinal vertical section thereof in a plane indicated by the line *x x*, Fig. 1; and Fig. 3, a horizontal
15 section of the same in a plane indicated by the line *y y*, Figs. 1 and 2.

Like letters designate corresponding parts in all of the figures.

The special purpose of my present invention
20 is to improve the construction of the "artificial mother" of the brooder, such as applied to poultry-coops, as set forth in my application for Letters Patent No. 151,560, filed December 30, 1884; but the improvement may be
25 applied to the construction of artificial mothers in any apparatus for artificially hatching and brooding chickens.

I represent in the accompanying drawings a poultry coop and brooder similar to those described in the aforesaid application for Letters
30 Patent, except as to the construction of the artificial mother, to which my present improvement relates.

In the said drawings, A designates the coop;
35 B, the boiler or water-heating device; C, the water-feed tank; D, the upper or hot-water pipes; and E E E, the lower or warm-water pipes, which give heat to the artificial mother beneath them.

40 I construct this artificial mother as follows: The top board or boards, H, located over the warm-water pipes, to confine the heat thereof to the artificial mother, may be constructed and arranged substantially as described in the
45 said application for Letters Patent, with the addition of a removable strip, I, attached to the front edge or turned-down edge, *a*, of the said top board or boards, to which strip a cloth,
50 *b*, or sheet of soft fibrous material is suspended and reaches down near to the floor of the coop,

leaving sufficient open space beneath the lower edge thereof for proper ventilation. The cloth may be in separate strips or in fringes or scallops at the lower edge, as shown in Fig. 2, whereby sufficient spaces are left under the
55 cloth for the chicks to pass in and out and room for sufficient ventilation is allowed. Then under the warm-water pipes a rack, J, formed of a bottom, *c*, ends *d d*, and preferably a back, *e*, but having its front side open, is
60 placed, and is free to be removed from its position. The ends *d d*, which reach up nearly to the warm-water pipes, serve to support rods or poles K K, extending from one end of the rack to the other, notches *f f* being made in the
65 upper edges of the ends to receive the rods and hold them in proper positions; or equivalent means may be used instead of the notched ends. From these rods are respectively suspended
70 cloths or sheets of soft flexible material L L, reaching nearly to the bottom of the rack, and they serve to protect the young chicks and to retain the heat evenly around them. The cloths may be in strips or hang down in fringes or
75 scallops, like the front strip, *b*, before described. There may be as many of the rods and cloths as desired, and there may be a sufficient number of the holding-notches to hold more or
fewer of the rods, at will. The ends *d d* of the rack are oblique in position, approaching each
80 other from front to rear of the rack, as shown in Fig. 3, for the purpose of making the back angles of the rack obtuse and providing triangular spaces at the ends wide enough at the
85 rear ends of the spaces to admit a chick, so that no chicks may be wedged therein and perish when the rack is inserted, if a stray chick or two happens to be in the rack-chamber at the time.

Besides the efficacy of this artificial mother
90 in equally distributing and retaining the warmth from the warm-water pipes above and providing for the proper ventilation of the place, the whole rack and its clothing are removable together for cleansing, and the separate
95 rods and cloths, or any number of them, are also removable and replaceable, as occasion may require; also, as the chicks grow older and require less warmth and protection, the
100 rods and cloths may all be removed, either

temporarily or permanently, until the succeeding brood is ready to take their places.

I claim as my invention—

1. The combination of the warming-pipes E
5 E E, board H over the pipes, and provided
with the cloth-suspending strip I at its front
edge, the rack J, and removable and adjusta-
ble cloth-suspending rods K K beneath the
said pipes, substantially as and for the pur-
10 pose herein specified.

2. In combination with the coop A, the mov-
able rack J, having a back, e, and oblique ends
d d, whereby open spaces are left in the coop-
corners when the rack is pushed against one
end or side of the same, substantially as and 15
for the purpose herein set forth.

HENRY J. HAIGHT.

Witnesses:

C. S. NEWELL,
D. G. VREELAND.