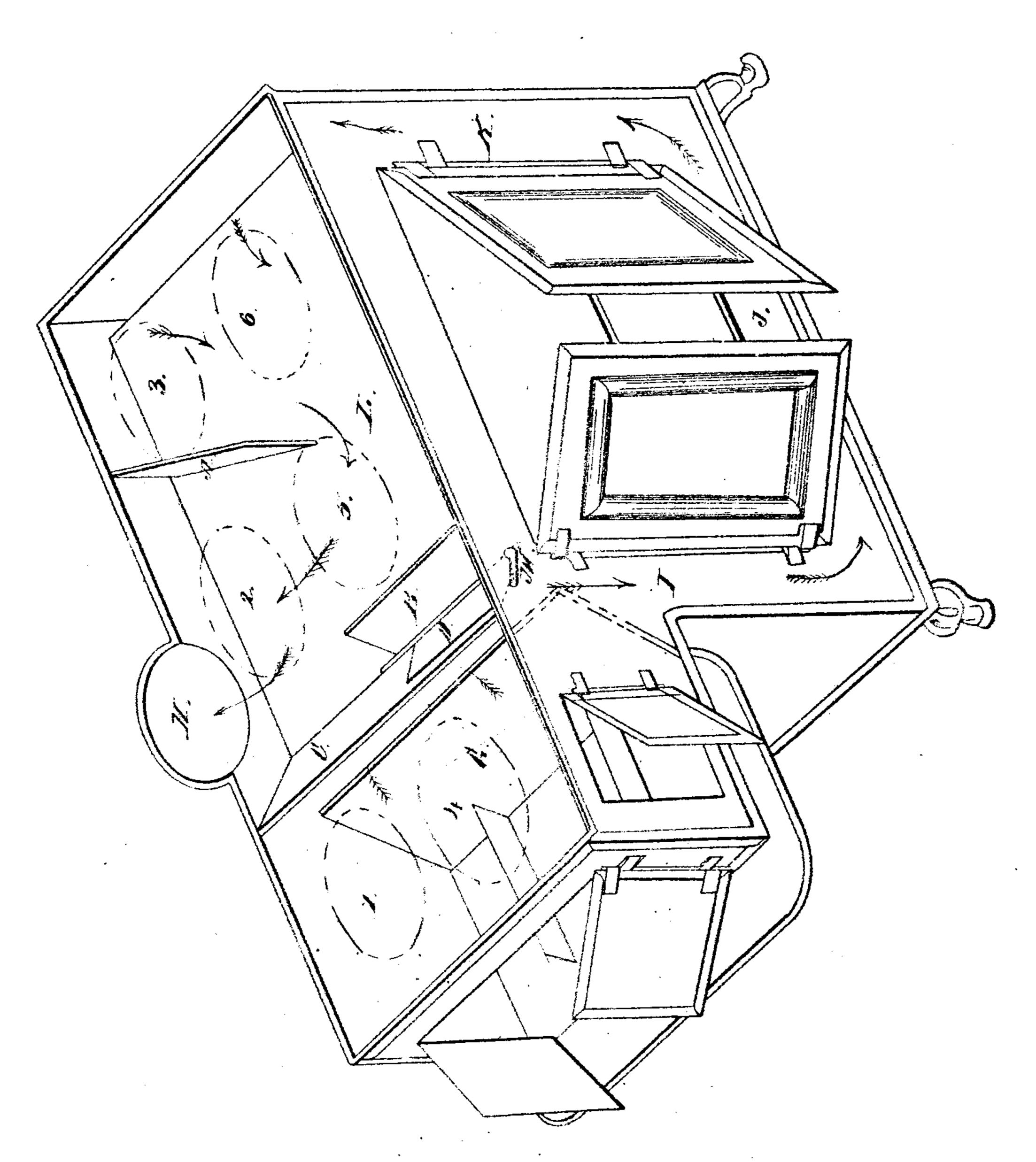
H. Mitchell, Cooking Store. Patentecl May 23,1865.

Nº 47,845.



Wilnesses: Janus W. Brelsford Janus W. Delle

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United States Patent Office.

HENRY MITCHELL, OF RICHMOND, INDIANA.

IMPROVEMENT IN COOK-STOVES.

Specification forming part of Letters Patent No. 47.845, dated May 23, 1865.

To all whom it may concern:

the city of Richmond, in the county of stove, which, without the use of more metal, Wayne, in the State of Indiana, have invented a new and improved mode of distributing the heat equally about the oven in cooking stoves, and of securing an equal degree of temperature in every part of the oven, and of distributing the heat equally under the top plate, and of economizing fuel; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

The plate C, containing the damper B, I place at the upper front corner of the oven. The plate C and damper B are constructed as usual, and all that I claim as to said plate and damper is the location at the upper front corner of the oven. I construct a flue, I, in | than can be elsewhere, and the heat against front of the oven and under said oven, also the same is brought under the bottom of the back of said oven and over the top of the stove is too much exhausted to create a desame, so that when the damper B is closed | gree corresponding with that at the top, but the heat will pass in the direction of the ar- | when the heat is first taken down the side rows from the fire-box into sud down flue I and under the oven by the most direct in front of the oven; thence into and along route, as I take it, and then over the oven, flue I under the oven; thence into and up the natural tendency of heat being to rise, flue K back of the oven; thence over the top | a much more nearly equal degree is secured of the oven to the pipe H. The heat is dis- | in every part of the oven, and the heat, being tributed over the top of the over by means in this manner more immediately and directly of the guide-plate A and the pipe II, the applied, is better economized, and a less quanguide-plate A, by its, position, causing the heat to pass over the top of the oven in the direction of the damper B, and the pipe H, by its location on the side of the stove, drawing the heat back from the damper B to the opposite side, where the pipe H is located.

I claim as new, and as invented by meand not hertofore used or invented by any other person or persons, cutting the fire off in front of the oven, turning the same down the flue I in front of the oven; thence into the flue J under the oven; thence up the flue K; thence over the top of the oven.

I claim as new, and invented by me and not heretofore used or invented by any other person or persons, the position of the guideplate A, by means of which the heat is thrown in the direction of the damper B, and the position of the pipe II, by means of which the heat is drawn back from said damper B to the opposite side, where said pipe II is located, and the relative location of said guide-plate A and pipe II, by means

of which said heat is thus equally distributed Be it known that I, HENRY MITCHELL, of over said oven and under the top plate of the and without greater cost or labor in constructing, gives for use six stove-holes in the top plate instead of four, the number usually used, and always used without an extra outlay of metal, labor, and cost, the object being to secure an equal degree of heat on every side and through every part of the oven.

In other stoves the heat is first taken over the top of the oven, down the back of the oven, and then under the bottom, and back again under the bottom, up the back of the oven to the pipe. The heat of the flame diminishes in proportion to the distance it travels, and the natural tendency of heat is to rise. and when taken it is first over the top of the oven a greater degree of heat is obtained there tity of fuel is required.

When it is not desirable to use the oven, the damper B may be opened and the relative position of the damper and pipe distribute the heat under the two middle holes on the top plate, thus giving four holes for use in cooking, whereas in other stoves the location of the pipe in the middle of the back part draws the flame and heat not directly under the back holes, but between them.

What I claim as my invention, and desire

to secure by Letters Patent, is-The combination and arrangement of the plate C, containing the damper B, at the upper front corner of the oven, with the lines I, J, and K, and the location of the guideplate A, and of the pipe II, by means of which the heat is taken by the shortest and most direct route entirely around the oven.

HENRY MITCHELL.

Witnesses: Lewis G. Stubbs. CHRISTIAN FETTER.