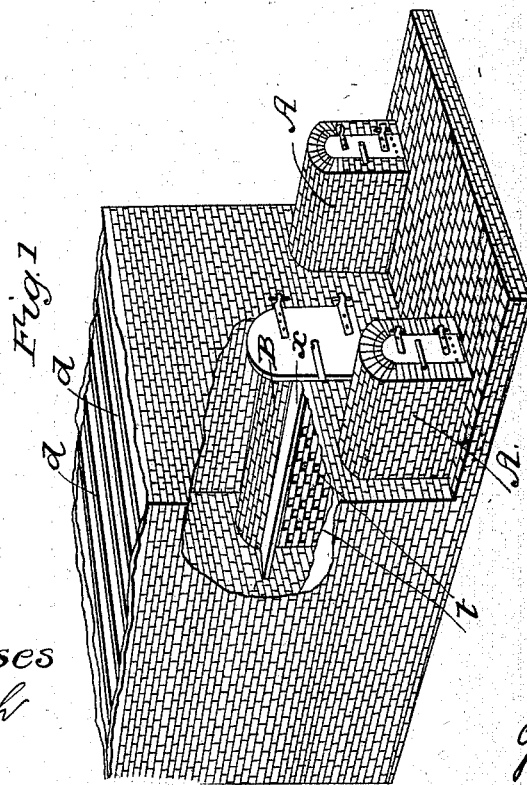
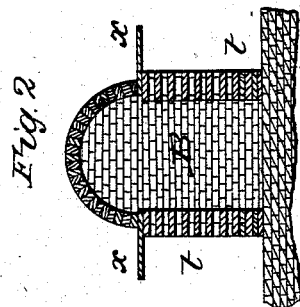


W. HAMILTON.

Smoke House.

No. 47,355.

Patented April 18, 1865.



Witnesses
M. Randolph
& Wagner

Inventor
W. Hamilton

UNITED STATES PATENT OFFICE.

WILLIAM HAMILTON, OF ST. LOUIS, MISSOURI, ASSIGNOR TO DAVID
CARLISLE, OF SAME PLACE.

IMPROVEMENT IN SMOKE-HOUSES.

Specification forming part of Letters Patent No. 47,355, dated April 18, 1865.

To all whom it may concern:

Be it known that I, WILLIAM HAMILTON, of the city and county of St. Louis, and State of Missouri, have invented a new Safety Smoke-Chamber for Smoke-Houses; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings and the letters of reference marked thereon.

Figure 1 is a sectional elevation, in perspective, of a smoke-house, a portion of the walls of which is broken out to disclose the safety smoke chamber within. Fig. 2 is a transverse section of one of the smoke-chambers.

To enable those skilled in the art to make and use my invention, I will proceed to describe its construction and operation.

Outside of the smoke house I construct a fire box, A, of brick or other suitable material. These fire-boxes should have suitable iron doors, *a*, for closing them up tight. Leading from the fire-box A is the safety smoke-chamber B. (Seen through the breach in the wall of the building in Fig. 1.) The side walls of the smoke-chamber are built of brick or other suitable material. When built of brick, the walls should be nine inches thick, and the bricks so disposed in the several courses as to leave an open space, *t*, clear through the wall between every brick. These openings *t* should be of the thickness of the course of the brick in which they are constructed, and their length should be about half the length of the brick. A similar construction might be made

in stone or iron, but I prefer the use of brick. A brick arch should be thrown over the top of the smoke-chamber, as shown clearly in Fig. 2. These arches will ordinarily be constructed of one thickness of brick, and several feet of that portion of them nearest the fire-box should be of fire-brick. The lining of the fire-box will also be of fire-brick. There will be an iron plate, *x*, projecting over the side of the walls of smoke-chamber from the base of the arch. The smoke-chambers should be constructed in the bottom of the smoke-house below the joist *d*, on which the meat is placed to be smoked. The fire being built in the fire-box A, entirely outside of the house, a great portion of the heat will be retained outside, and not injure the meat during the process of smoking. The sparks which may arise from the fire will be likely to expire in the smoke-chamber; but if any of them should pass out of the openings *t*, their upward flight will be arrested by the projecting iron plate *x*, and the building will thereby possess great immunity from danger by fire.

Having described my invention, I claim—

Constructing the fire-box A outside of the smoke-house, in connection with the smoke-chamber B inside of the house, and the openings *t* and the plate *x*, substantially as described.

WM. HAMILTON.

Witnesses:

M. RANDOLPH,
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