

D. E. SOMES.
Refrigerator Building.

No. 30,770.

Patented Nov. 27, 1860.

Fig. 2.

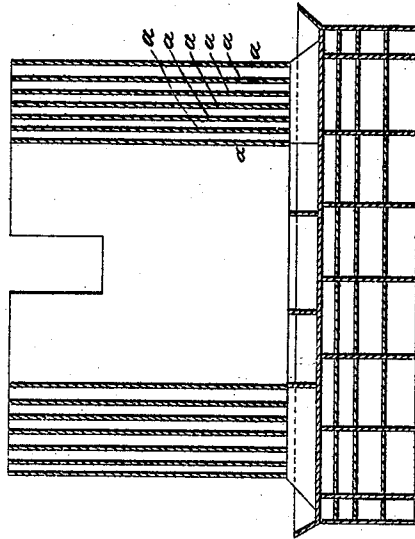
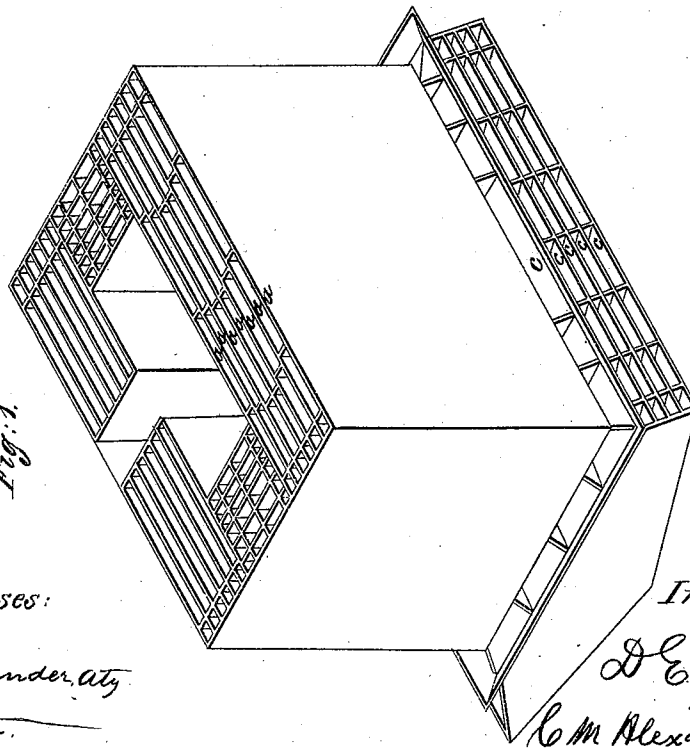


Fig. 1.



Witnesses:

C. M. Alexander, atty
a. a. Yeatman.

Inventor:

D. E. Somes
per
C. M. Alexander, atty

UNITED STATES PATENT OFFICE.

D. E. SOMES, OF BIDDEFORD, MAINE.

CONSTRUCTION OF BUILDINGS FOR PACKING MEATS.

Specification of Letters Patent No. 30,770, dated November 27, 1860.

To all whom it may concern:

Be it known that I, DANIEL E. SOMES, of Biddeford, in the county of York and State of Maine, have invented certain new and
5 useful Improvements in the Mode of Constructing Buildings to be used for Salting and Curing Food and Hides, &c., in; and I do hereby declare that the following is a full, clear, and exact description of the same,
10 reference being had to the accompanying drawings and to the letters of reference marked thereon.

The nature of my invention consists in constructing a building, having walls and
15 roof, with a series of air spaces between to protect the interior of the building from the heat and changes of the external or surrounding air and in which meats, flesh, &c., may be salted and cured, as will be herein-
20 after described.

In the annexed drawings two figures are seen, both of which show the building inverted, one being a perspective and the other a section.

25 This building is erected above ground having proper foundations beneath the earth as is usually the case with large structures.

a, a, a, a, represent a series of walls which may be made of any desired thickness and
30 height. Six air chambers are here represented, but I do not propose to confine myself to this number.

This building is covered by a series of roofs. The first roof over the building is
35 nearly flat and sufficiently raised above the tops of the walls as to allow of a free ventilation. The other roofs are sloping and each one is raised above the other high enough to allow the air to circulate freely
40 between them.

A proper door is cut through the side or end of the building through which the material to be salted and cured is conveyed.

A building constructed in the manner described must necessarily be very cool and
45 well adapted to the purpose for which it is used; for it will be impossible for heat to penetrate through the walls and air chambers or spaces, which it must do in order to affect the temperature of the interior of the building. It will also be im-
50 possible for the rays of the sun to penetrate or heat the roof immediately above the salting and curing room, as the air circulates freely between the roofs and serves to keep
55 them cool. In warm temperatures and in the summer season when I am unable to keep the temperature of the interior of the building sufficiently low for curing meats, &c., without artificial means, I propose to
60 use such means, placing ice and salt or other cooling mixtures within the building in case-ments or vats, or otherwise, as I may deem best.

In this building I propose to salt and cure
65 animal meats, fish, &c., and hides at all seasons of the year and in all latitudes.

Having thus fully described my invention what I claim as new and desire to secure by
Letters Patent is—

70 Constructing a building whose walls and roof include hollow air spaces arranged substantially in the manner and for the purpose set forth.

D. E. SOMES.

Witnesses:

C. M. ALEXANDER,
M. M. DOW.