

James M^c Candless, Market Stall.

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Fig. 1.

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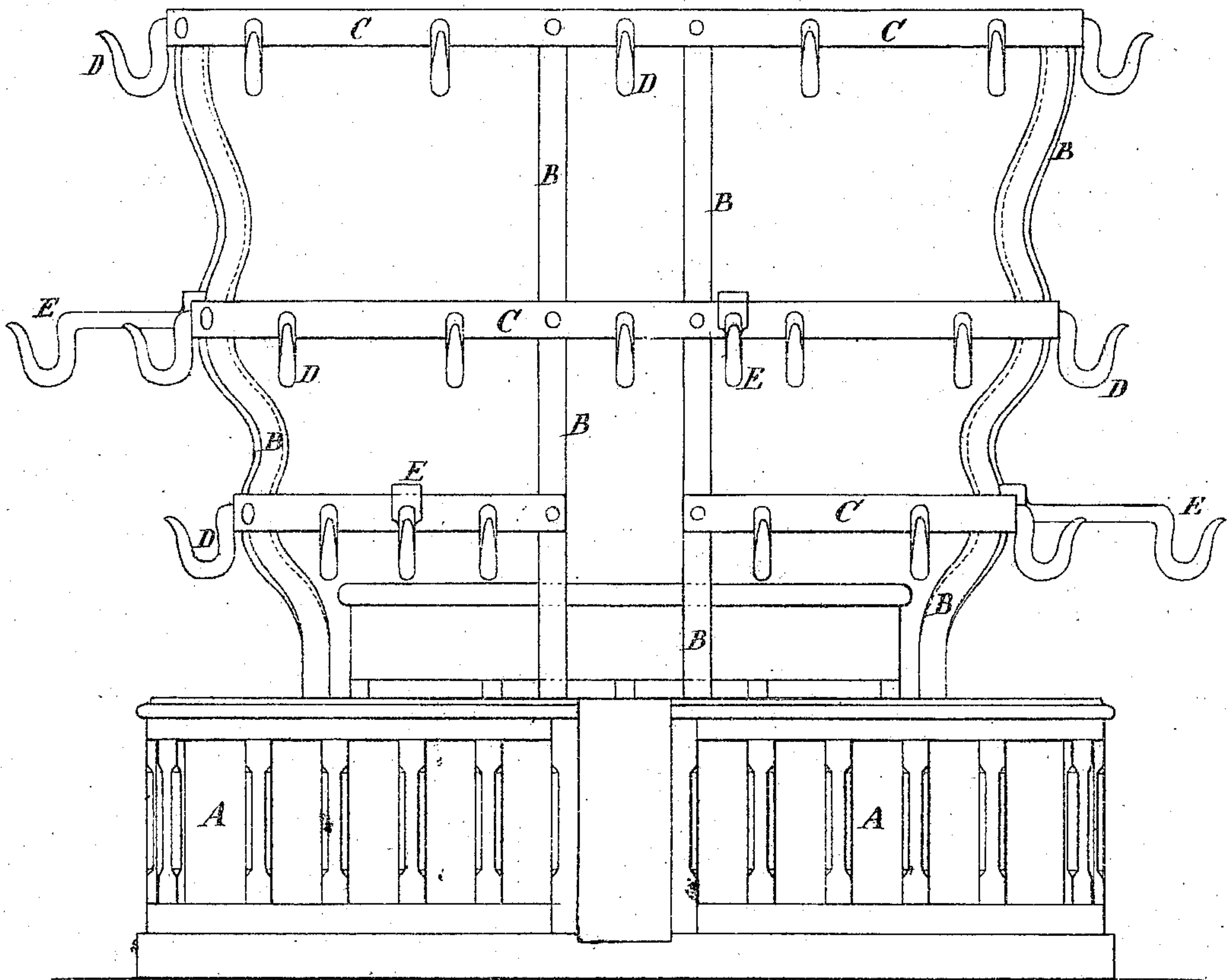
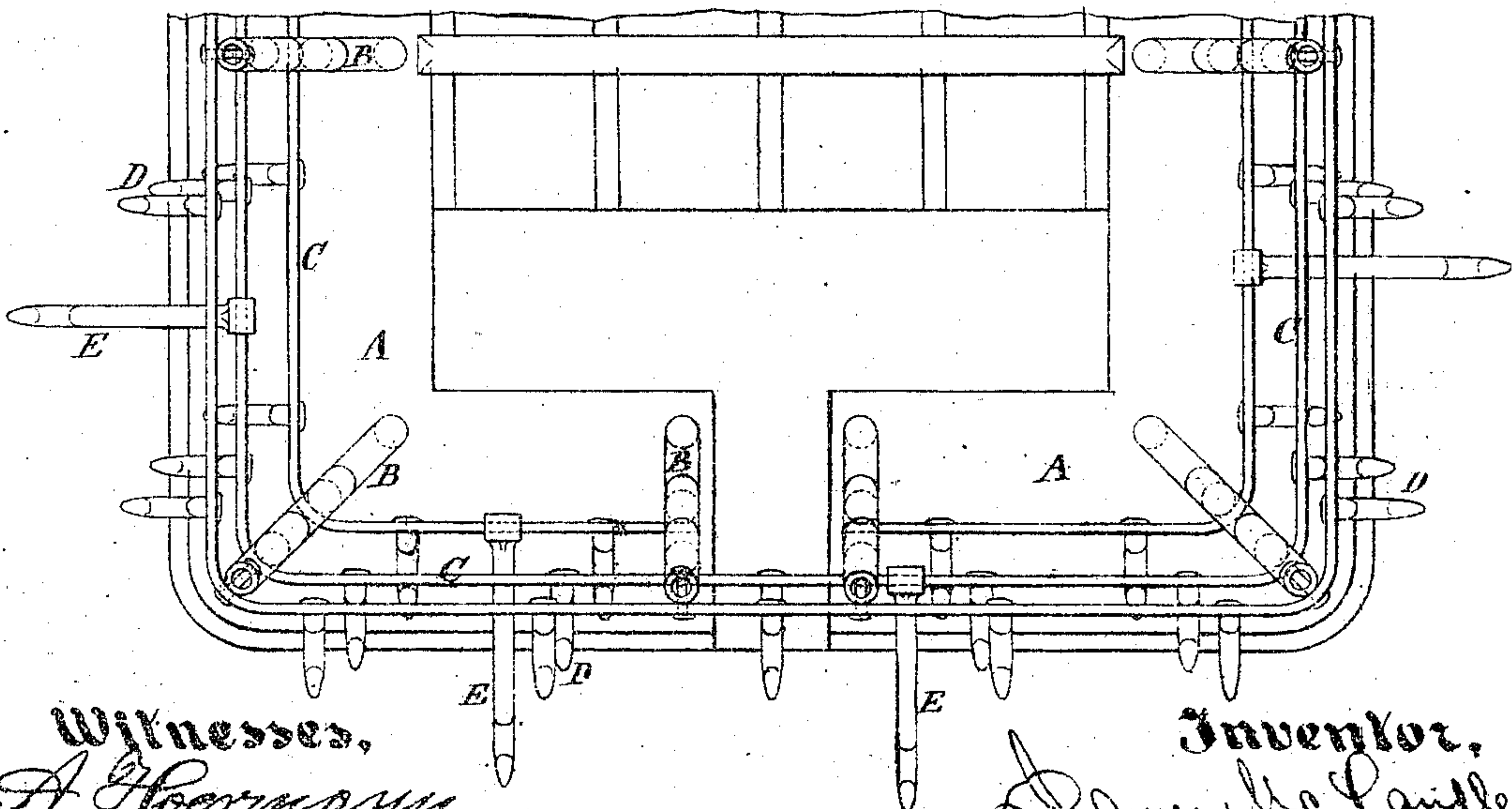


Fig. 2.



Witnesses,
A. Hoernemann,
C. C. Livingston

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JAMES McCANDLESS.
Market-Stall.

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Fig. 3,

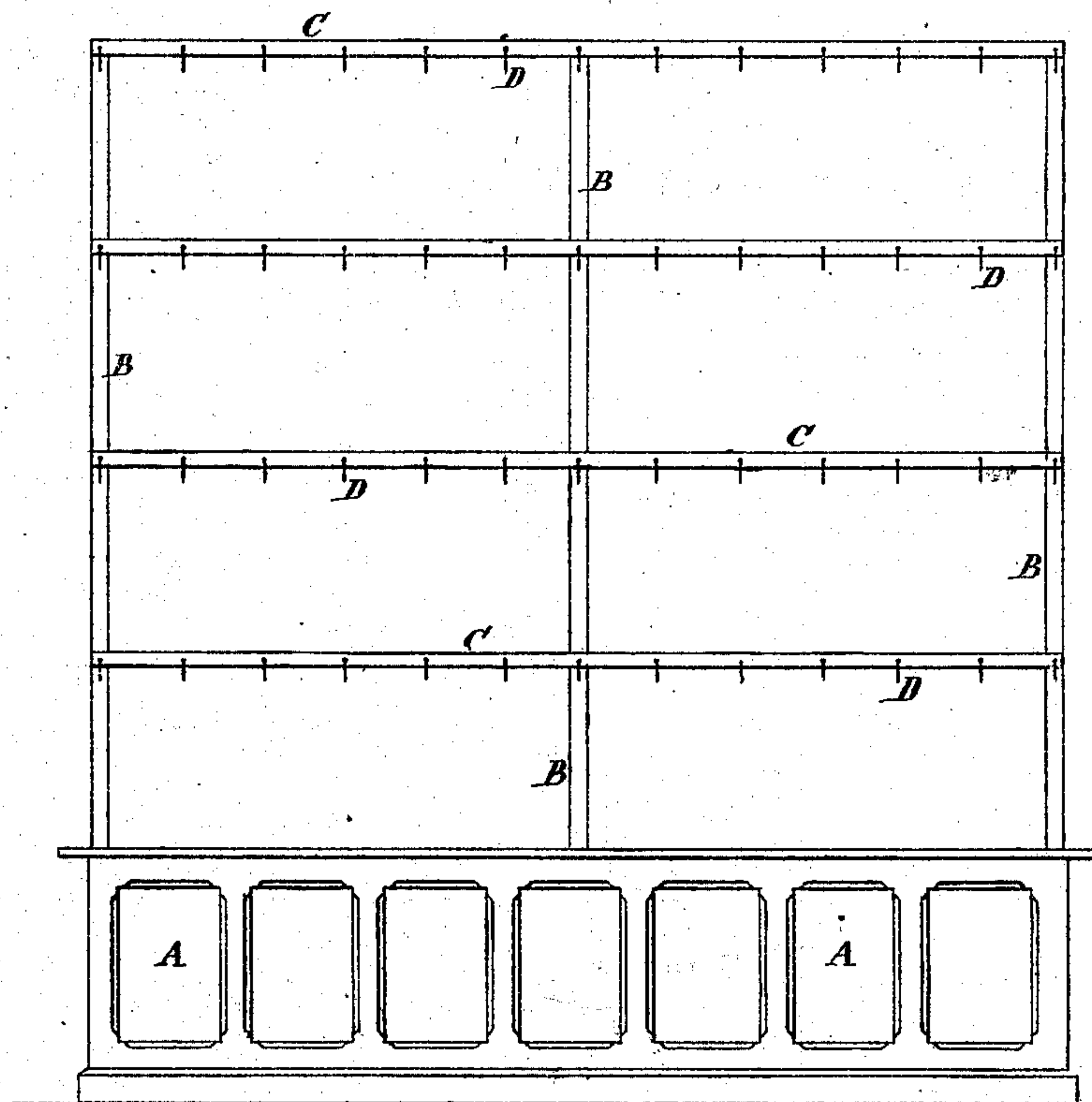


Fig. 4,

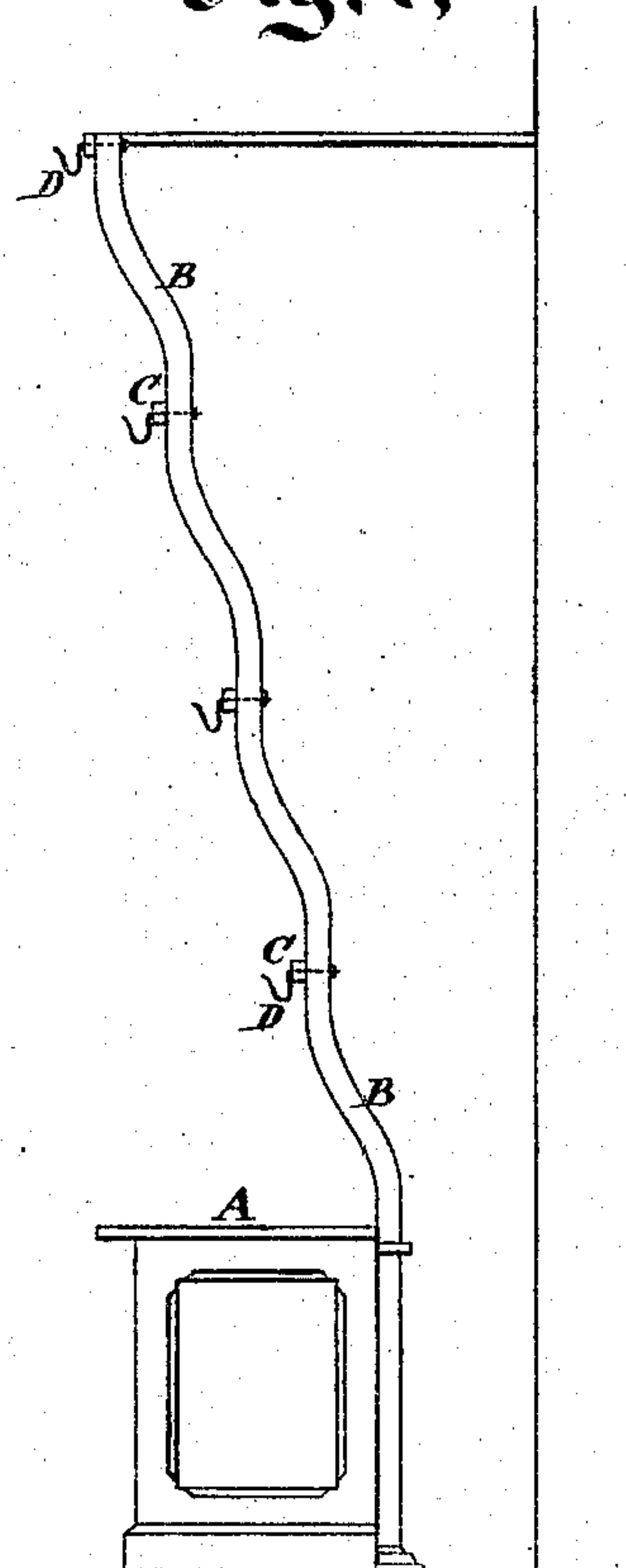


Fig. 7,

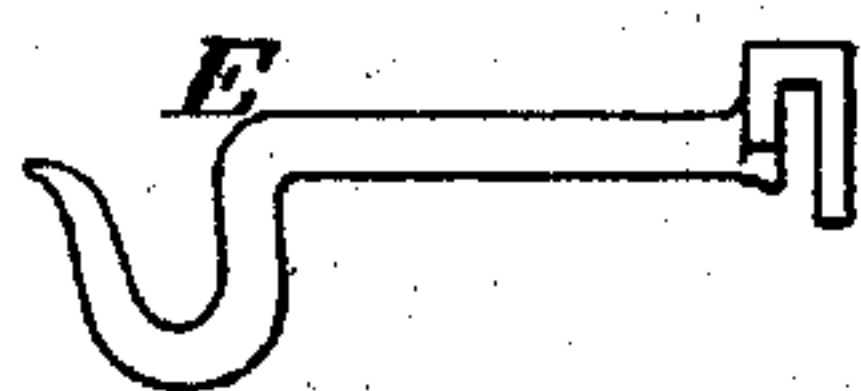


Fig. 6,

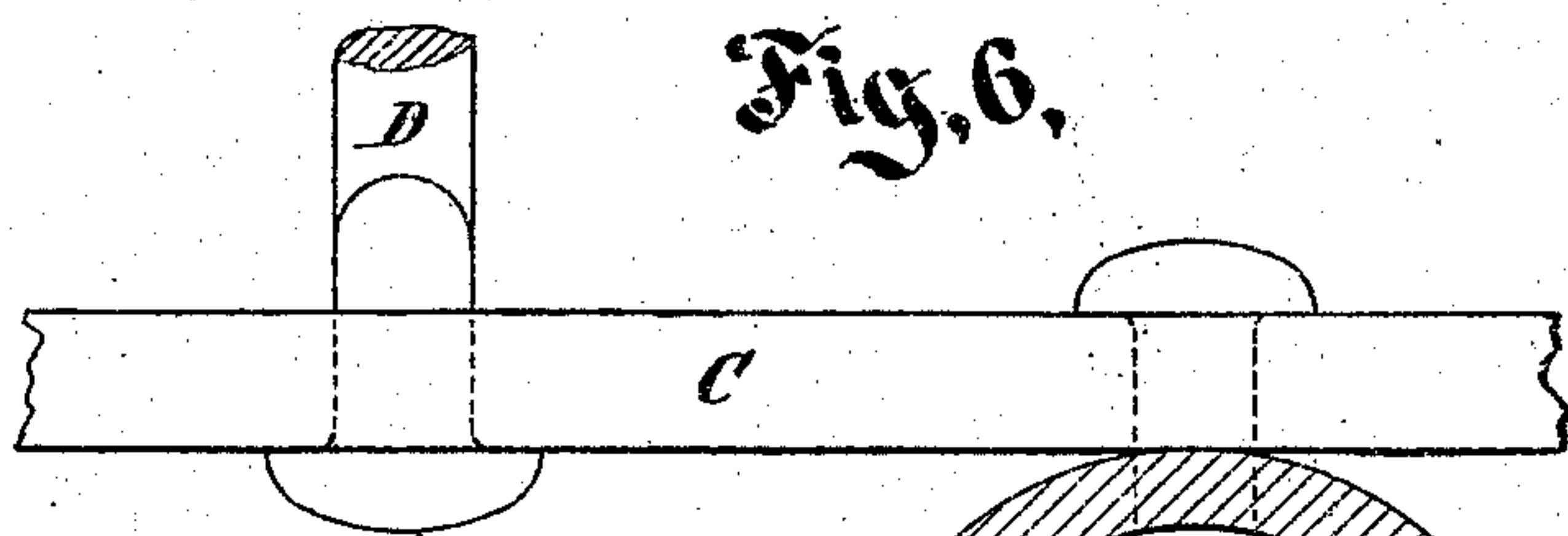
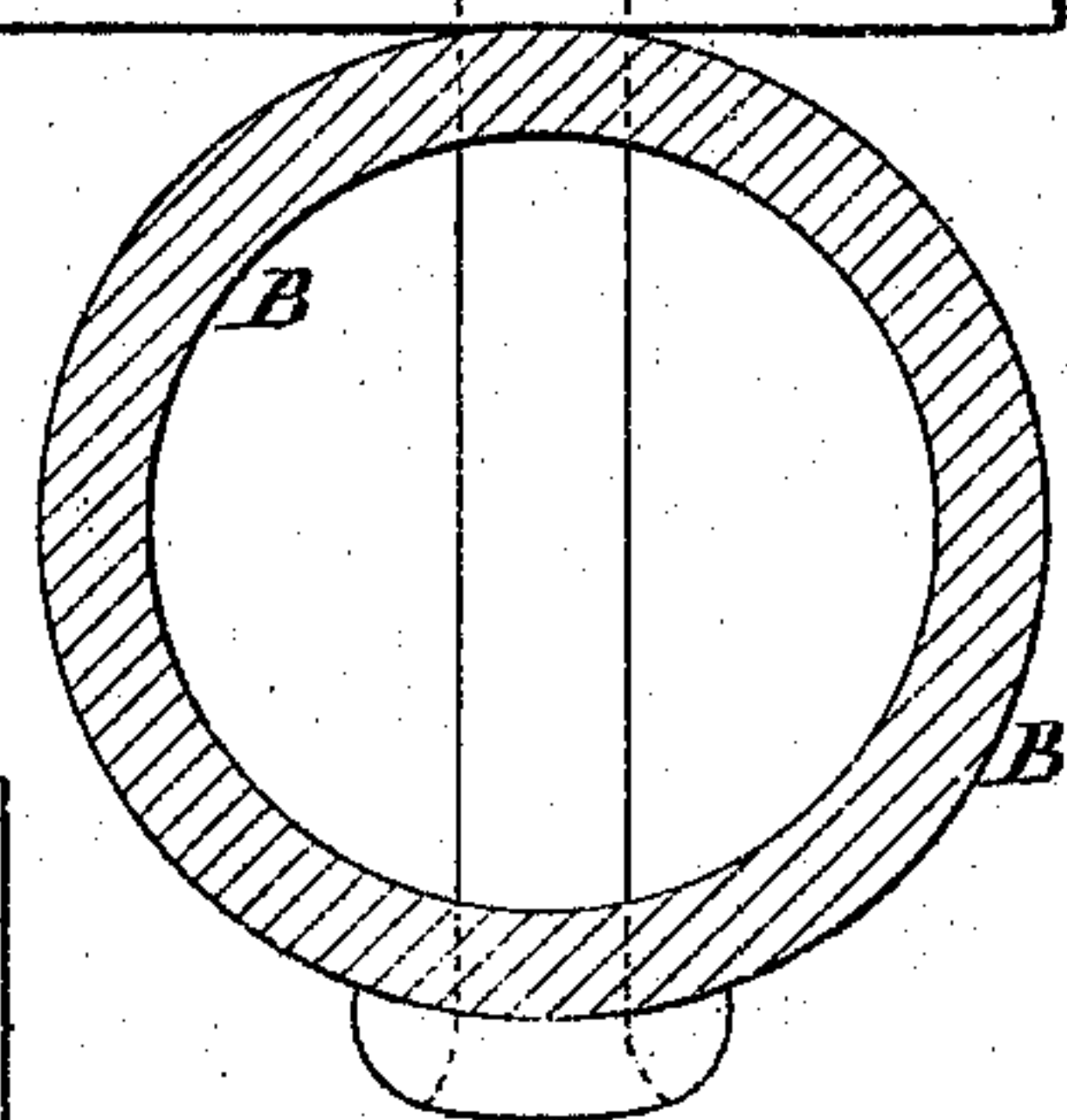
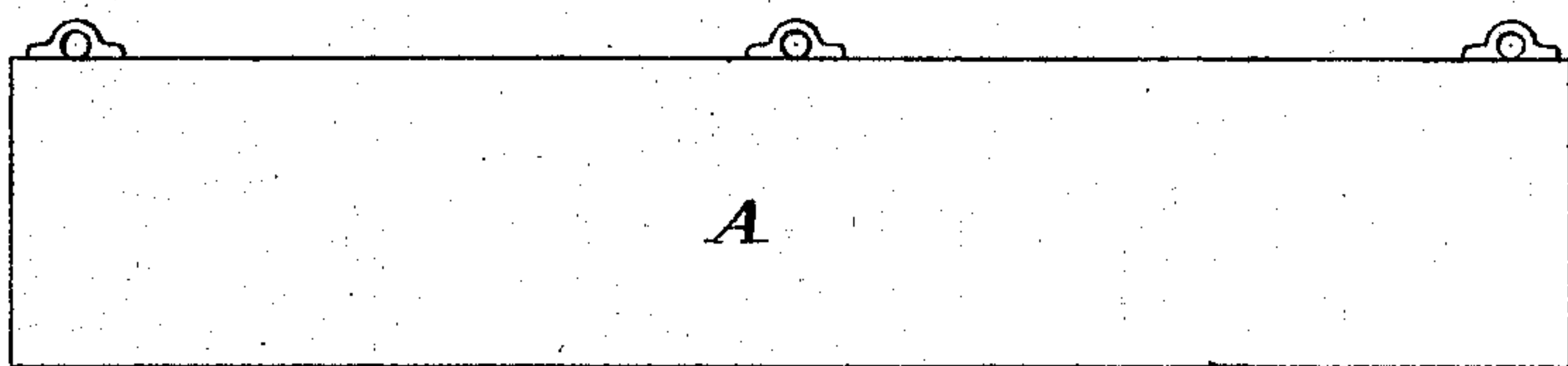


Fig. 5,



Witnesses,

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Inventor,

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UNITED STATES PATENT OFFICE.

JAMES McCANDLESS, OF NEW YORK, N. Y.

IMPROVEMENT IN MARKET-STALLS, &c.

Specification forming part of Letters Patent No. 117,653, dated August 1, 1871.

To all whom it may concern:

Be it known that I, JAMES McCANDLESS, of the city and county of New York, State of New York, have invented certain new and useful Improvements in Market-Stalls for Meat and Poultry, of which the following is a specification:

The invention relates to the framing above the counter which sustains the meat in a suspended condition. Heretofore these have been made of wood, and necessarily cumbrous, and of straight or nearly straight pieces. I make a very thin or skeleton frame of iron, which, besides the great strength and durability due to the material, affords special advantages in this construction by the diminished obstruction it induces to light and the circulation of air; by the reduced surface it presents which requires cleaning; by its absence of absorptive properties; and by the facility with which it may be crooked to accommodate the hanging masses in the manner more fully set forth below.

The following is a description of what I consider the best means of carrying out the invention.

The accompanying drawing forms a part of this specification. Figure 1 is a front view of the entire structure, the thickness of the iron-work being much exaggerated. Fig. 2 is a plan view of the same, the back portion being omitted in both figures. Fig. 3 is a front view of slightly-modified form of the construction. In this figure the iron-work is shown more nearly in its true proportions. Fig. 4 is a side elevation of the same work shown in Fig. 3. Fig. 5 is a plan view of the counter, showing one of the means of connecting the iron-work to the counter; and Fig. 6 is a section, full size, through the properly-crooked tube-stuff which is used for the uprights, with a plan view of the thin rectangular iron used for the horizontal parts, and the connection of one of the permanent hooks. Fig. 7 represents one of the changeable meat-hooks detached from the frame.

Similar letters of reference indicate like parts in all the figures.

My improvement may be applied to stalls of any size. I have in Figs. 1 and 2 represented it as applied to stalls adapted for four persons or firms. The stall is square, and one corner occupies each corner. The space around is accessible to both purchaser and dealer. The interior space is only used by the dealer. The arrange-

ment in this respect is common in this class of constructions. The counter is represented by A, and may be of any ordinary or suitable construction, and topped with marble or any suitable material. The posts of the framing are of thick wrought-iron tubing. They may be lap-welded, such as is commonly used for gas-pipe, of suitable size to produce a stiff framing when braced in the manner shown. The pipes, being filled with melted lead, are successively heated and bent at the several bends represented, and finally heated altogether, to allow the lead to flow out. C represents horizontal bars, which may be solid flat iron drilled with holes to receive the hooks D at proper intervals, as represented. The strips C, with their series of hooks D, are fixed on the bellies or salient portions of the crooked tubular posts by means of through rivets, as shown. The tubular construction of the posts gives great strength and stiffness with a small amount of material. The galvanizing of the surface avoids oxidation, and the peculiar crooks given to the posts B allow the meat to hang from each of the several hooks without touching the posts or the meat below, and the nature of the material avoids the possibility of absorbing and holding any taint in case of accidental neglect. The upper bars C are continuous quite around, and there may be, if desired, one or more stretching across the top either parallel to the sides or diagonally. The whole stands rooted in the body of the counter A, or is supported in brackets fixed on the inner face thereof. The hardness of the material allows the employment of a class of hooks which cannot, with the same good effect, be used on wood frames. E represents one of these hooks. It is fitted with a clamp or grapple, which matches upon either of the bars C at any point desired, so that the hooks D may be supplemented by these hooks E to any extent desired.

I claim as my invention—

The iron-framed market-stand A B C D, constructed in the manner substantially as herein set forth.

In testimony whereof I have hereunto set my name in presence of two subscribing witnesses.

JAMES McCANDLESS.

Witnesses:

H. M. BREWSTER,
A. HOERMANN.