

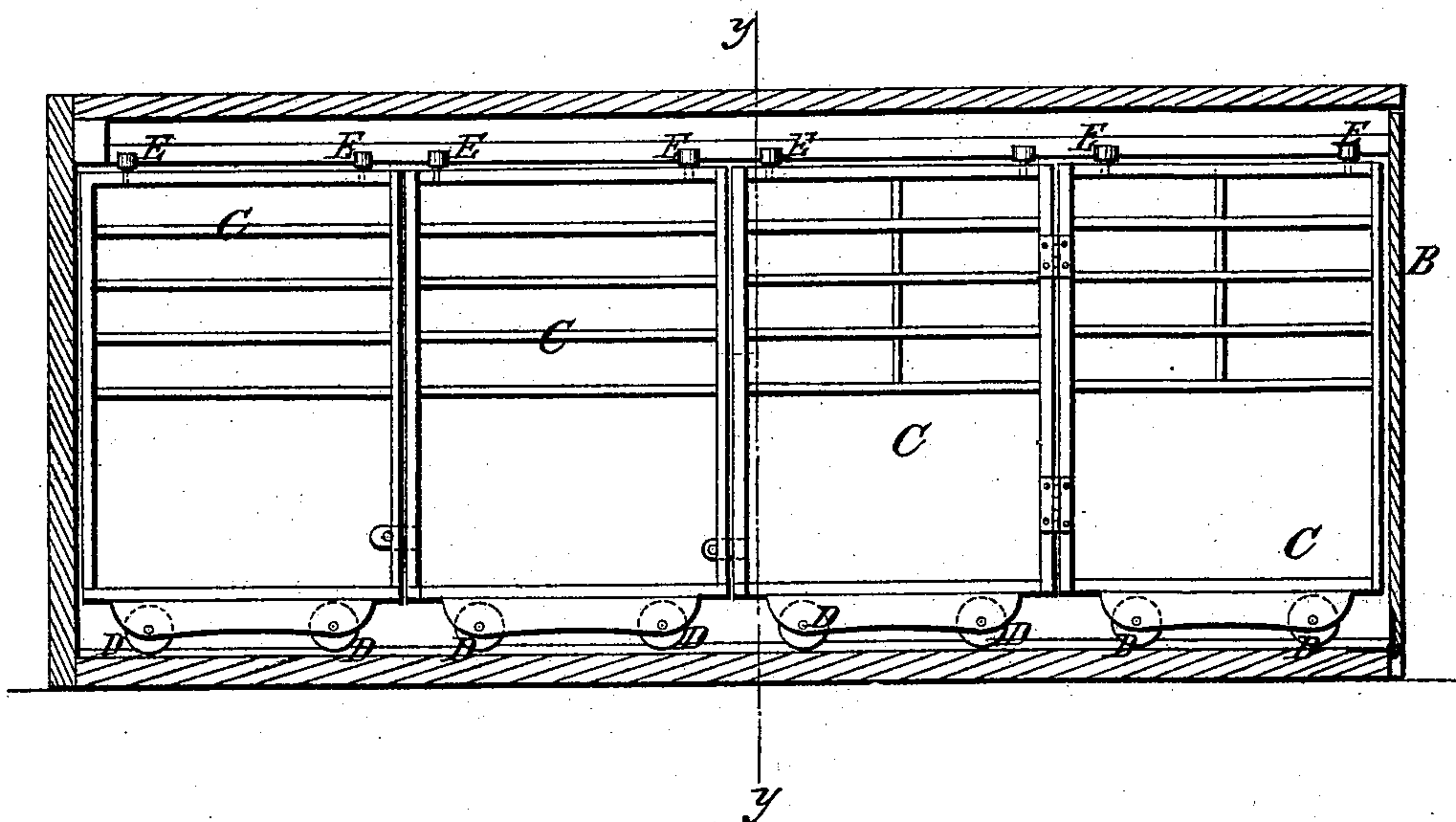
*W. & G. Koch.*

*Store Shelving.*

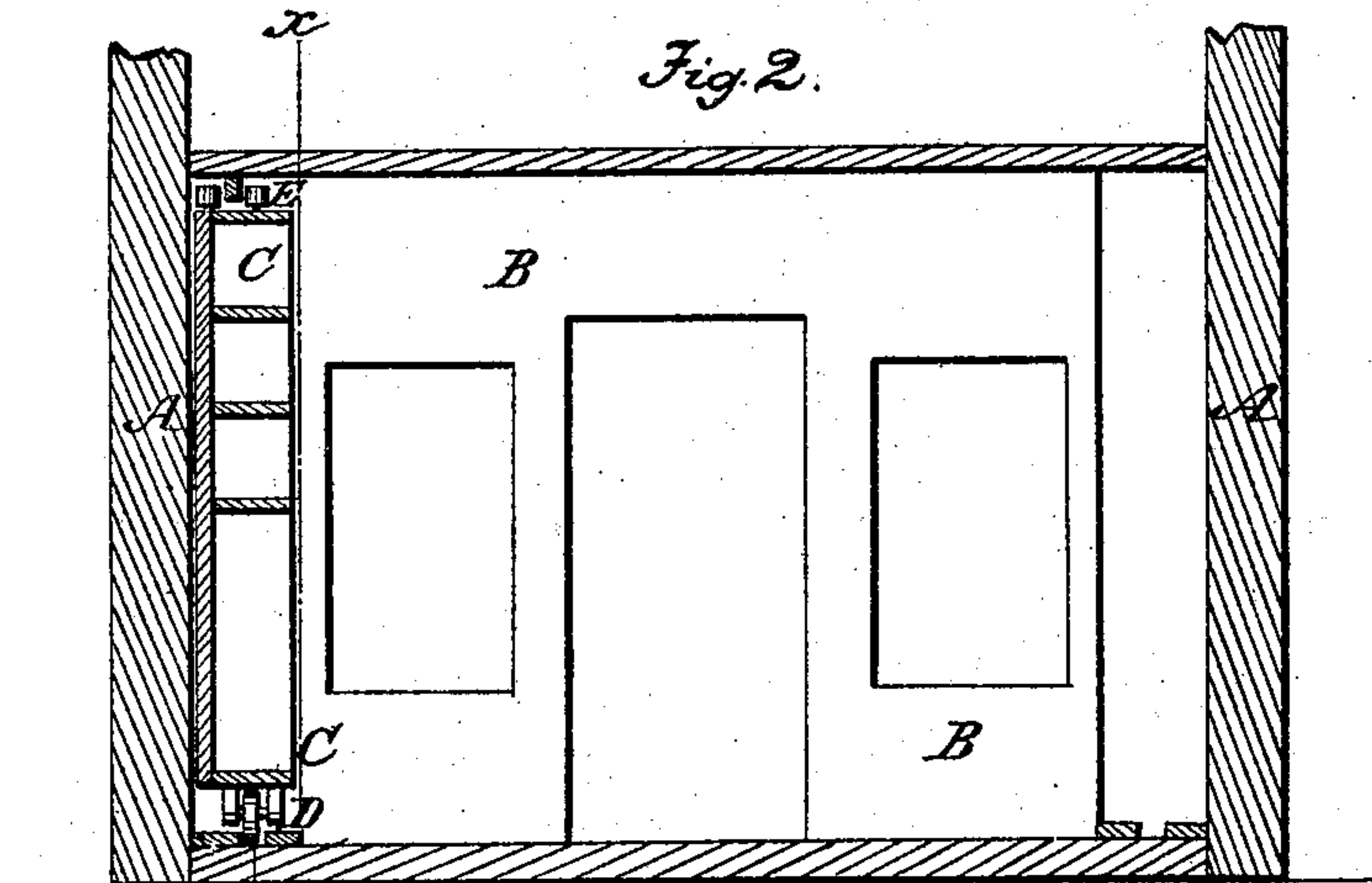
*N<sup>o</sup> 92,731.*

*Patented Jul. 20, 1869.*

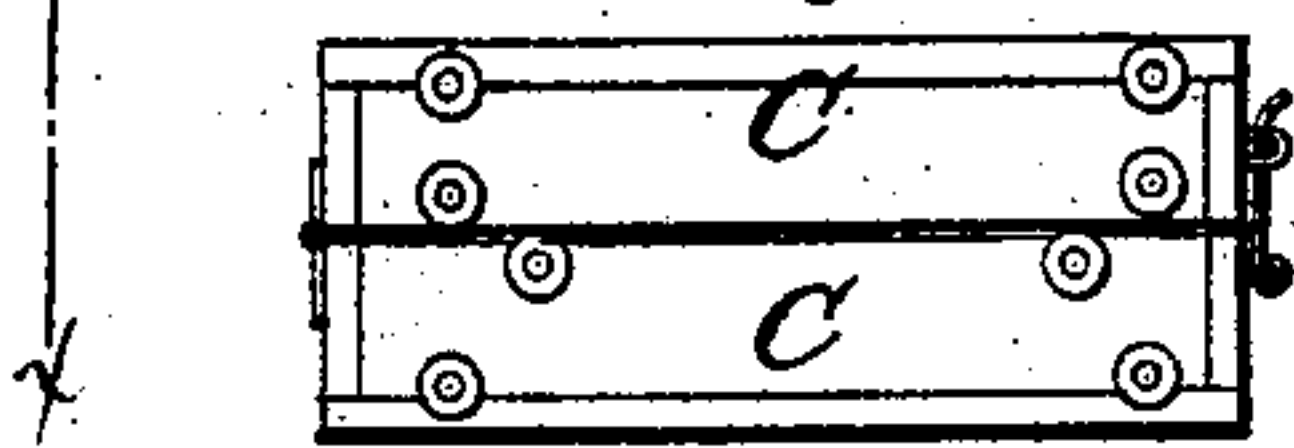
*Fig. 1.*



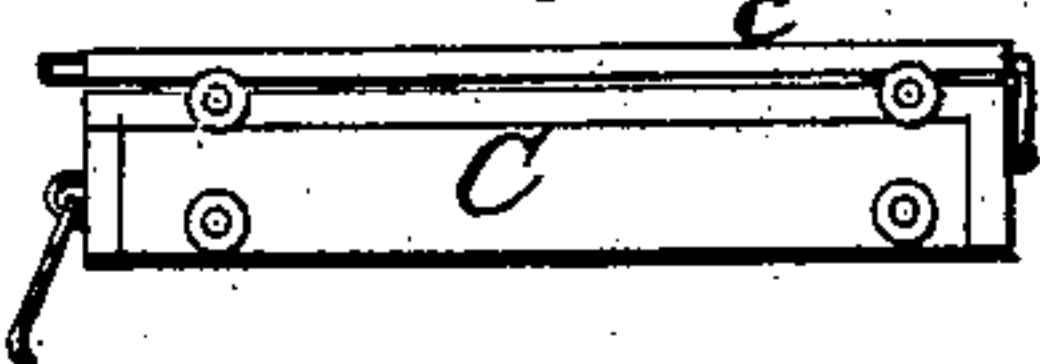
*Fig. 2.*



*Fig. 3.*



*Fig. 4.*



*Witnesses.*  
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*W. Koch*  
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*attys.*

# United States Patent Office.

WILLIAM KOCH AND GEORGE KOCH, OF CASS, PENNSYLVANIA.

*Letters Patent No. 92,731, dated July 20, 1869.*

## IMPROVED SHELVING FOR STORES.

The Schedule referred to in these Letters Patent and making part of the same.

### *To all whom it may concern:*

Be it known that we, WILLIAM KOCH and GEORGE KOCH, of Cass, in the county of Venango, and State of Pennsylvania, have invented a new and useful Improvement in Shelving for Stores; and we do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawing, forming part of this specification, in which—

Figure 1 is a longitudinal section of a room to which our improved shelving has been attached, taken through the line *x-x*, fig. 2.

Figure 2 is a cross-section of the same, taken through the line *y-y*, fig. 1.

Figures 3 and 4 are detail top views, illustrating different ways of closing the sections of shelves.

Similar letters of reference indicate corresponding parts.

Our invention has for its object to furnish an improved mode of constructing store-shelves, which will enable the shelves and the goods which they contain to be quickly removed from the store, should it become necessary, on account of fire or other accident; and

It consists in constructing the shelving in sections, provided at their lower and upper ends, either or both, with friction-wheels, as hereinafter more fully described.

A represents the side, and

B, the front of a store or other room.

C is the shelving, which is made in sections, entirely independent of each other and of the walls of the room.

The sections C should be made of such a size that they may be conveniently handled, and have attached to them friction-wheels, or rollers D, upon which they may be moved into and out of place, said wheels rolling upon tracks, or ways formed upon the floor of the building.

To the top of the sections C are pivoted friction-wheels E, rolling along a guide or way attached to the ceiling of the room, said guide not only serving as a track for the friction-wheels, but also as a guard to keep the sections in a vertical position when in use.

In the front of the building, directly opposite the end of the shelving, should be formed a door, hinged at its lower end, and secured with suitable fastenings, which, when opened, may serve as a track for removing the sections C.

When the shelves are to be filled with light goods, the sections C may be hinged to each other, two by two, so that they may be closed face to face, and secured to each other, thus protecting the goods and folding the shelving into a convenient form for handling.

When the shelves are to be filled with heavy goods, each section should be provided with a cover, *c'*, hinged to it in such a way, that when not required for use it may be turned back along the back of the shelves, so as to be entirely out of the way and out of sight.

By this construction and arrangement of the shelving, should there be occasion, on account of fire or other cause, all the stock of goods may be removed from the building very easily and quickly, and conveyed to a place of safety, without loss or damage.

Having thus described our invention,

What we claim as new, and desire to secure by Letters Patent, is—

Constructing the shelving in sections C, provided with friction-wheels D and E, either or both, substantially as herein shown and described, and for the purpose set forth.

WILLIAM KOCH.  
GEORGE KOCH.

Witnesses:

ALEX. SHANNON,  
ALFRED KOCH.