

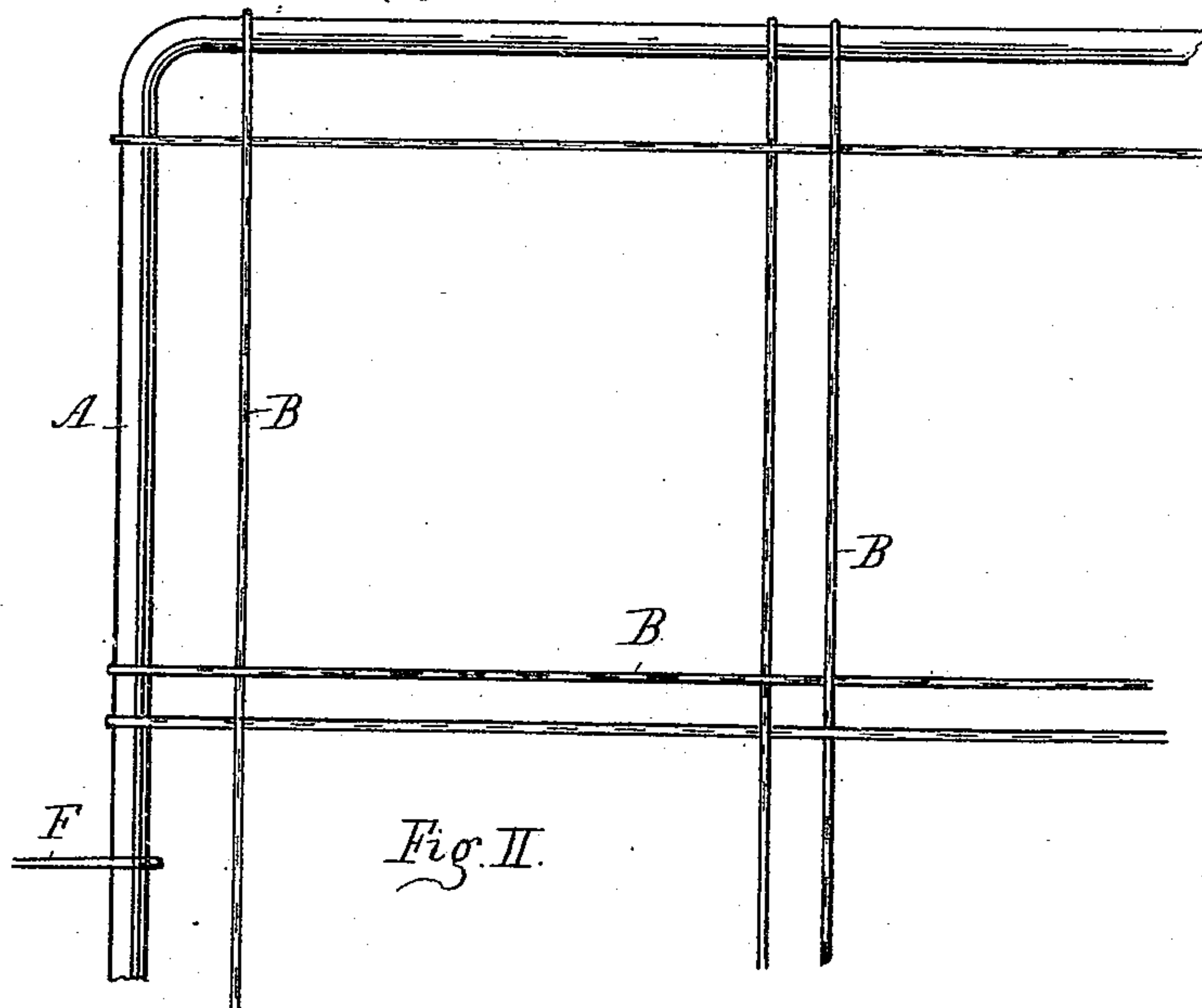
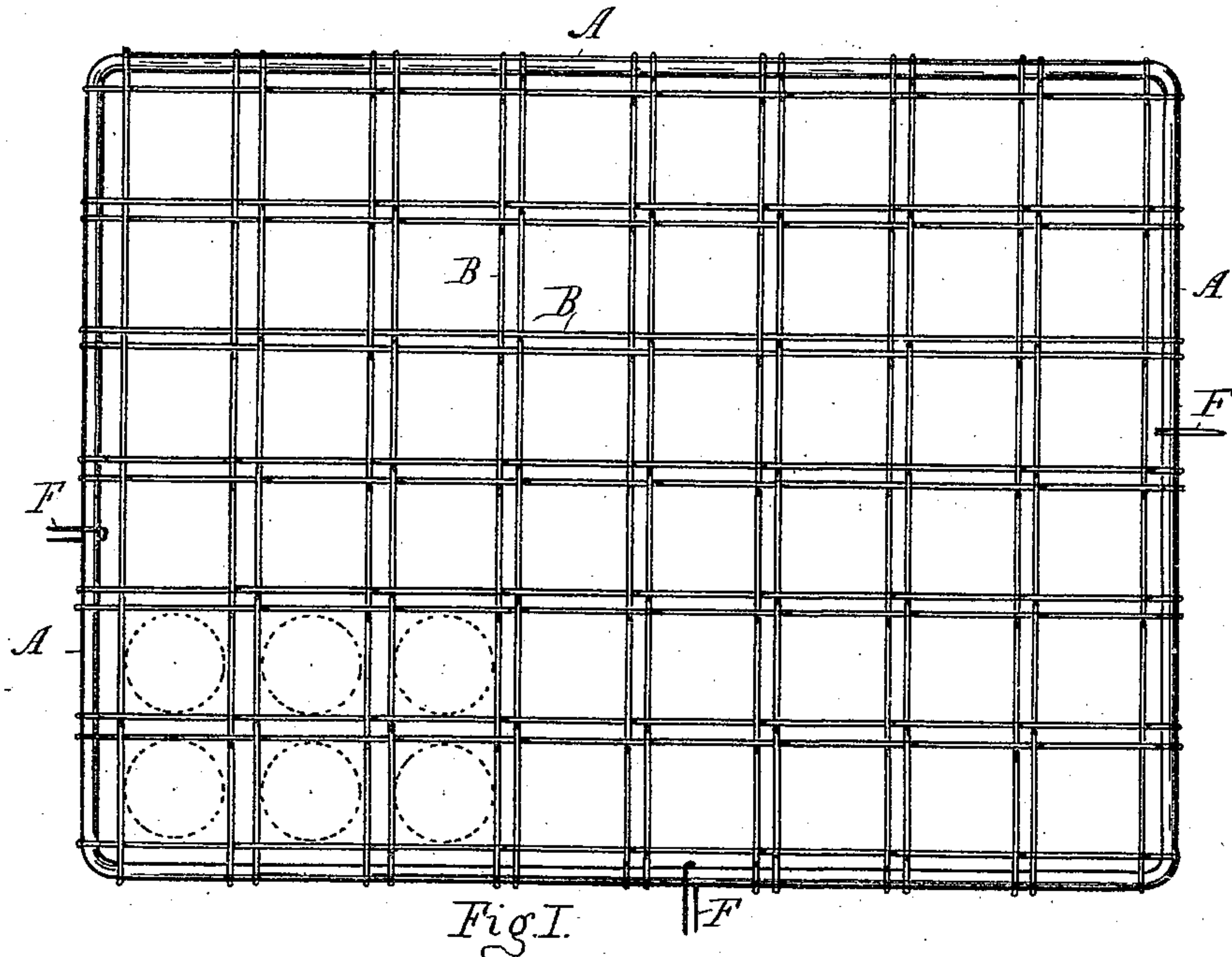
(No Model.)

2 Sheets—Sheet 1.

S. E. HYNDMAN.
BOTTLE CASE.

No. 446,349.

Patented Feb. 10, 1891.



WITNESSES:

R. S. Millar
Clara Ayres

INVENTOR :

S. E. Hyndman

By *J. Bailey* Attorney

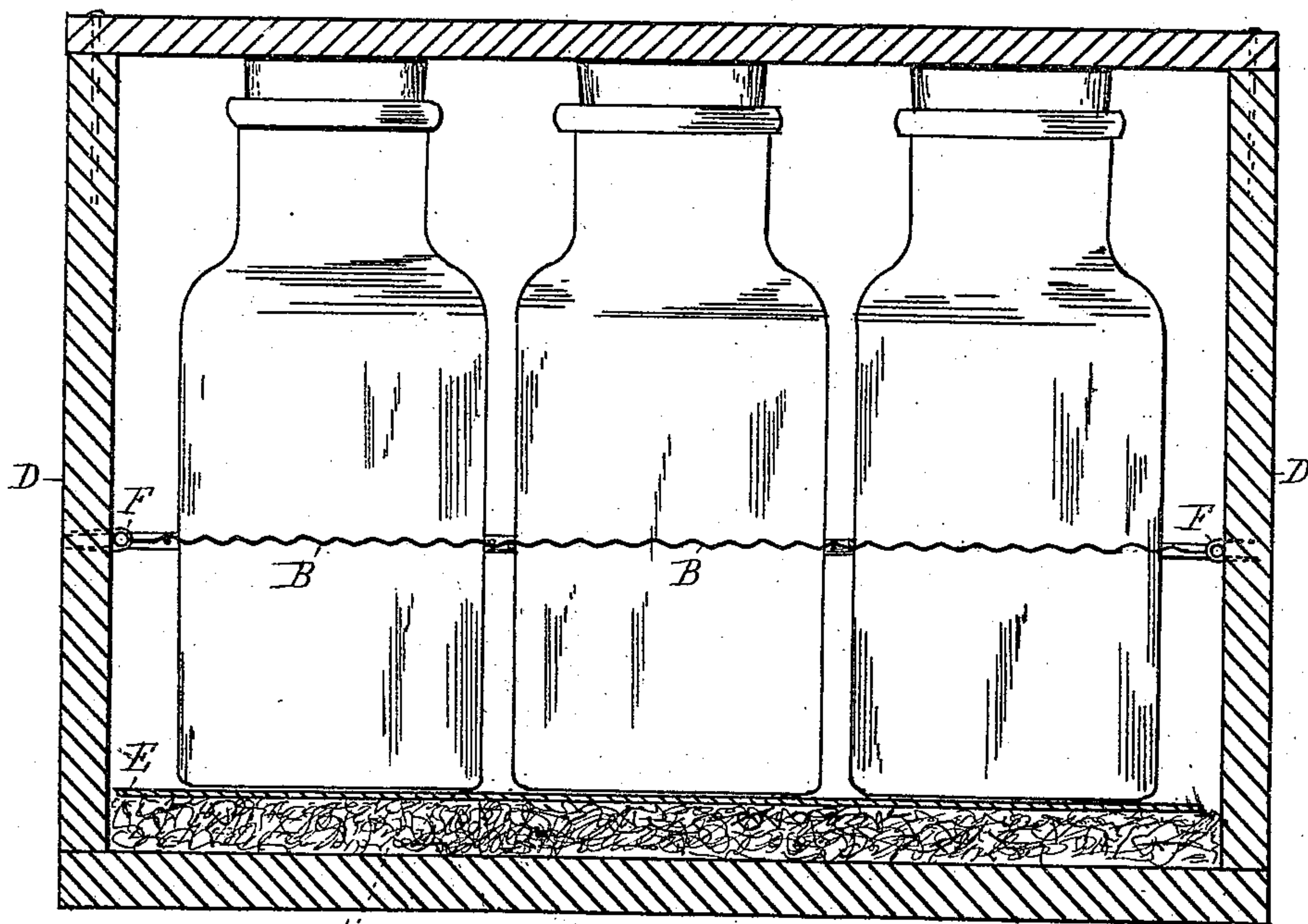
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Fig. III.

WITNESSES:

R. S. Millar
Clara Ayres

INVENTOR:

S. E. Hyndman
By C. Bailey
Attorney

UNITED STATES PATENT OFFICE.

SAMUEL E. HYNDMAN, OF CINCINNATI, OHIO.

BOTTLE-CASE.

SPECIFICATION forming part of Letters Patent No. 446,349, dated February 10, 1891.

Application filed September 8, 1890. Serial No. 364,375. (No model.)

To all whom it may concern:

Be it known that I, SAMUEL E. HYNDMAN, of Cincinnati, in the county of Hamilton and State of Ohio, have invented a new and useful Improvement in Packing-Boxes for Bottles, &c., which improvement is fully set forth in the following specification and accompanying drawings, in which—

Figure I is a top view of my improved device for packing bottles and other fragile vessels; Fig. II, a section of the same, showing the plan of construction; and Fig. III, a sectional side elevation of a box, showing a series of bottles packed for transportation.

My invention relates to improvements in appliances for packing glassware and other fragile articles; and its object is to provide a simple and inexpensive device, whereby bottles of every description, jars, lamp-chimneys, &c., may be easily and safely packed for transportation without incurring danger of breakage or other damage.

The invention consists of a rack or framework of wire, which is made vertically adjustable in an ordinary packing-box. The transverse wires of the frame form meshes or openings which engage and give lateral support to the bottles and prevent contact one with the other. The meshes are so constructed that they may be readily altered in size and shape and adapted to the various forms and dimensions of the bottles or other articles which they are designed to protect.

Referring to the accompanying drawings, A designates the marginal wire of the frame, preferably made of a single piece.

B are transverse wires having their ends bent around the marginal wire, preferably of a size considerably smaller than that of which the margin is made. These wires are corrugated or crimped at regular intervals, and are so arranged that they mutually interlock at their intersections in the same manner as the transverse threads in an ordinary woven fabric. If it be desired to change the size of the meshes or openings, they may be readily enlarged or diminished by shifting both series of the transverse wires. The shape of

the meshes may be modified by shifting either one of the series. By this means the frame may be adapted to round, square, or flat bottles. It will be observed that the transverse wires are disposed in pairs. By this arrangement the bottles are kept separate and cannot come into contact even if the box should be carelessly or roughly handled.

The peculiar advantage of the device and its application will be manifest. A suitable quantity of sawdust or other packing material C is evenly distributed upon the bottom of the box D and covered by a sheet of heavy paper E. The frame A is adjusted at the proper height and fastened to the inner sides of the box by the wire staples F, which straddle the marginal wire, and so not only sustain the shelf but prevent any upward movement of it. The bottles are placed in their respective openings or meshes, and the top of the box being fastened the operation is complete. In addition to other advantages it is obvious that the device will effect a material saving in time, labor, and material.

What I claim as new is—

1. A rack for packing-boxes, composed of a single marginal wire of large size and provided with corrugated transverse wires of smaller size arranged in pairs mutually interlocking at their intersections and forming adjustable openings or meshes adapted to engage the bottles and prevent their contact with each other, substantially as specified.

2. In a packing-box, as described, the horizontally-disposed wire rack A, its marginal wire made of a single piece of large size and provided with meshing-wires B of smaller size, combined with the staples F, which straddle the marginal wire and hold the rack in a horizontal position.

In testimony that I claim the foregoing I have hereunto set my hand, this 6th day of September, 1890, in the presence of two witnesses.

SAMUEL E. HYNDMAN.

Witnesses:

R. S. MILLAR,
L. M. ADAMS.