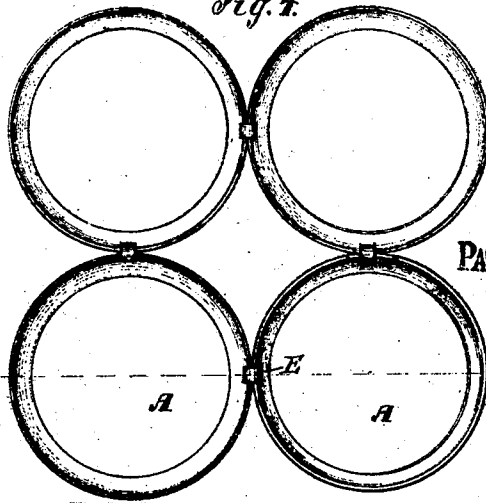


J. C. Milligan. Biscuit Pans.

101490

Fig. 4.



PATENTED APR 5 1870

Fig. 3.



Fig. 2.



Fig. 5.



Fig. 1.

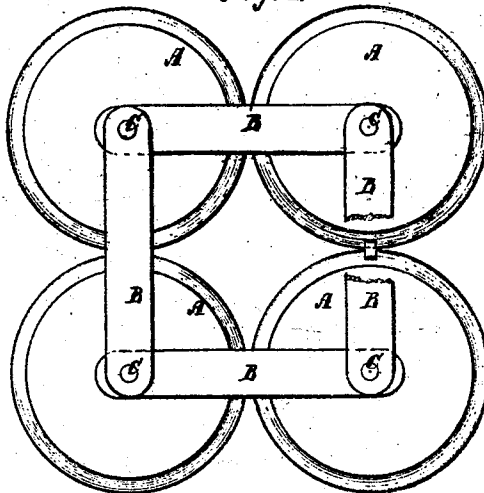
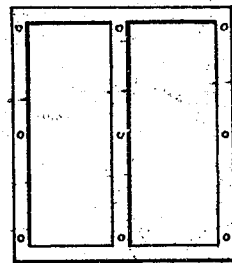


Fig. 6.



Witnesses:

A. Bonnetkendorf
J. H. Brooks

Inventor:

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PER *Munn & Co.*
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United States Patent Office.

JOHN C. MILLIGAN, OF BROOKLYN, NEW YORK.

Letters Patent No. 101,490, dated April 5, 1870.

IMPROVED BISCUIT-PAN.

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

To all whom it may concern:

Be it known that I, JOHN C. MILLIGAN, of Brooklyn, in the county of Kings and State of New York, have invented a new and useful Improvement in Biscuit-Pans; and I 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 drawings forming part of this specification.

This invention relates to improvements in connecting small biscuit-pans together in clusters, and consists in a novel construction of parts, which will be more particularly described hereinafter.

Figure 1 represents a plan of the bottom of a cluster of pans, joined together at the bottom by strips, and at the top by connecting the edges together.

Figure 2 represents a side elevation of a cluster, connected at the top only.

Figure 3 represents a sectional elevation of a cluster, showing a modified arrangement for connecting them at the top.

Figure 4 represents a plan view of a cluster, connected as in fig. 3.

Figures 5 and 6 represent diagrams, showing the manner of arranging the strips or bars used for connecting the pans at the bottom.

Similar letters of reference indicate corresponding parts.

A represents the pans, and

B, the bars or strips, riveted to the said pans by rivets C, passing through the bars, also connecting two sets of bars or strips, arranged at right angles to each other.

These bars may be prolonged as much as required to connect any number of pans in a cluster, and they may be joined to each other where they meet by welding, or they may be punched out of sheet metal in one piece, in the forms represented in the diagrams, figs. 5 and 6, in which cases the rivets C will pass through two thicknesses only.

The order of arrangement of the rows may be in right, curved or other lines, as may be preferred.

I propose, in connection with these bars, to connect the upper edges of the pans, where they come together, by strips of metal passing through holes in the sides, and clinched or riveted to them, or by rivets passing through the sides of two pans where they meet together; or I may use either of these modes of connection at the top or sides or at the bottom separately, as found best. For instance, if it be required to connect the said pans strongly to withstand rough usage, I use the bars or strips B conjointly with the connections of the upper edges, using either one of the modes represented for connecting the edges. But, in cases where strength of connection is not so much an object, and it is more desirable to arrange the said pans so that they will "nest" in packing for storage or transportation, I dispense with the bars or strips, and connect them at the upper edges only.

In fig. 2 I have represented a strip, D, of metal, bent so as to extend from the top of one pan to another, and down the side of each a short distance, the pans not quite meeting together, and the two downward-projecting ends of the uniting-strip being riveted to the pans.

In figs. 3 and 4 a strip, E, is shown, extending across the upper edges of two pans, meeting together, extending downward inside of each, and through holes made in the sides, and clinched together at the ends, meeting between the pans in any suitable way.

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

Biscuit-pans, connected together in clusters by means of the bars B, united to the bottoms, and by uniting the edges at the tops, as described.

The above specification of my invention signed by me this 23d day of November, 1869.

JNO. C. MILLIGAN.

Witnesses:

GEO. W. MABEE,
ALEX. F. ROBERTS.