(No Model.)

W. MEYER.

LEER PAN.

No. 564,526. Patented July 21, 1896.

Fig. 1.

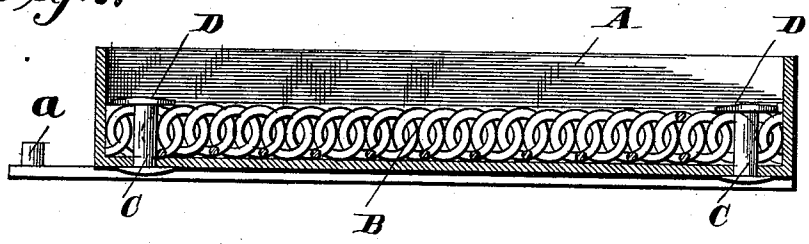


Fig. 2.

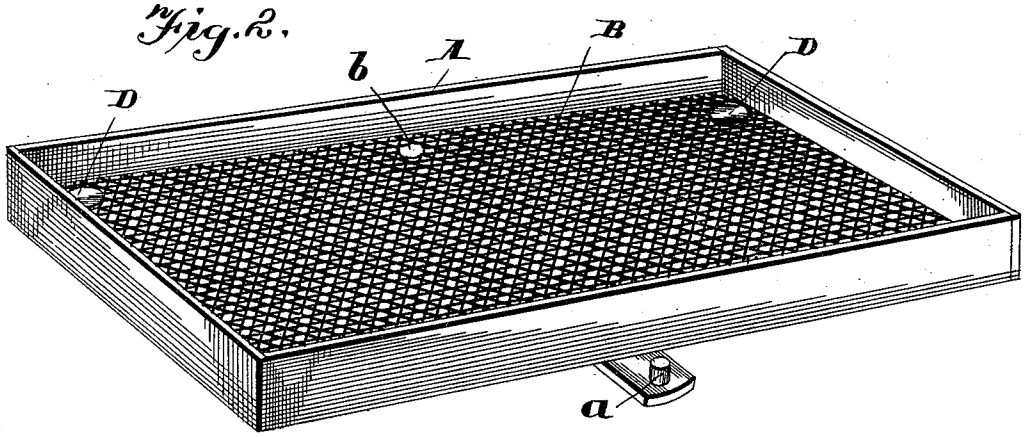
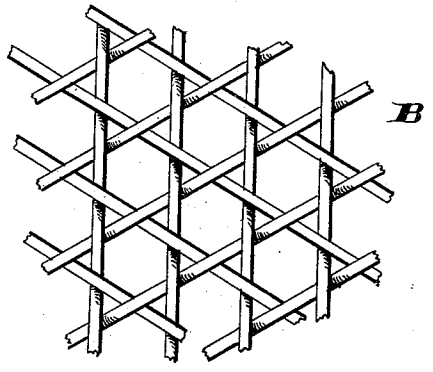


Fig. 3.



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UNITED STATES PATENT OFFICE.

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LEER-PAN.

SPECIFICATION forming part of Letters Patent No. 564,526, dated July 21, 1896.

Application filed December 19, 1895. Serial No. 572,709. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM MEYER, of Beaver Falls, in the county of Beaver and State of Pennsylvania, have invented certain new and useful Improvements in Leer-Pans; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use it, reference being had to the accompanying drawings, which form part of this specification.

My invention relates to improvements in leer-pans upon which glassware is placed to be transported to a furnace for annealing them.

In the annealing of glassware it is subjected to such an intense heat that the leer-pan becomes white-hot, and in the ordinary construction of leer-pans with solid bottoms, which receive directly the glassware to be annealed, there is on account of this direct contact in many cases a smoking or blackening of the glassware in its passage through the leer or furnace, and the purpose of this present invention is to prevent such smoking and blackening of the glassware, and to cause a more uniform dissemination of the heat throughout the article and consequently a more uniform cooling, which prevents the breaking thereof.

This invention consists in providing a steel-woven matting secured firmly to, resting upon, and supported by the bottom of the leer-pan, so that the glassware is supported and received by this steel matting instead of by direct contact with the bottom of the leer-pan, which I find prevents blackening and smoking of the glassware, and by holding it out of direct contact with the solid bottom of the pan causes a more uniform dissemination of the heat throughout the article and a more uniform cooling of the article, which prevents breaking and damage to the article by the smoking and blackening in the use of the ordinary leer-pan.

In the accompanying drawings, Figure 1 is a transverse vertical section through the pan which has my invention applied thereto. Fig. 2 is a perspective view of the same. Fig. 3 is a detached perspective view of a portion of the matting.

A indicates a leer-pan with a solid bottom, and B a steel-woven matting placed directly upon and supported directly by the bottom of the pan. The matting is secured to the pan by means of a series of rivets C, which pass through the meshes of the matting and have a large head D, and their lower ends riveted or upset at the lower or under side of the pan proper. This matting is so woven that while it rests upon the leer-pan it supports the glassware out of contact with the bottom of the leer-pan, and this prevents damage thereto by smoking or blackening, which frequently occurs when placed in direct contact with the pan, and it causes an equal dissemination of heat throughout the glassware instead of an intense heat upon those parts which rest directly upon the intensely-heated pan, owing to the fact that the heat is equally distributed throughout the wire matting by its contact with the heated pan and correspondingly distributed throughout the articles being annealed.

Where the articles are placed in direct contact with the white-heated bottom of the pan, that portion in contact therewith, as will be readily understood, becomes intensely hot and liable to misshape the article, as well as to blacken and smoke it, and also liable to cause breakage thereof. These defects are entirely prevented by the use of my steel mat placed within and made a part of the leer-pan.

The usual form of leer-pan is simply a piece of sheet metal with its ends turned up, and these are united in series by means of hooks adapted to enter openings in the adjacent sheet, substantially in the manner here illustrated by the hooks *a* and the openings *b*. My pan consists in having it formed in pan-like shape, that is, with vertical sides and ends, preferably, in which the articles are placed upon the wire-supporting fabric, as before described.

I do not make in this application any claim to a leer-pan consisting of a metal frame and a bed of woven-wire fabric removably fitted in the pan.

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

1. A leer-pan for annealing glassware and similar articles consisting of a pan with a closed bottom, and a woven matting supported

upon the said bottom for receiving the glassware and holding it from direct contact with the bottom of the leer-pan, for the purpose described.

2. A leer-pan for annealing glassware or similar articles consisting of a pan, having a bottom, and a woven matting secured to and supported by the bottom of the leer-pan for receiving and holding the articles to be annealed out of contact thereof, for the purpose described.

In testimony whereof I affix my signature in presence of two witnesses.

WILLIAM MEYER.

Witnesses:
S. A. JOHNSTON,
G. L. EBERHART.