

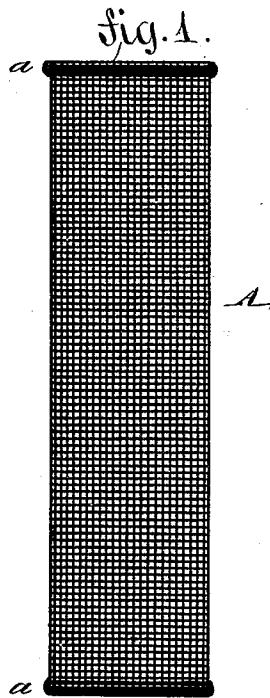
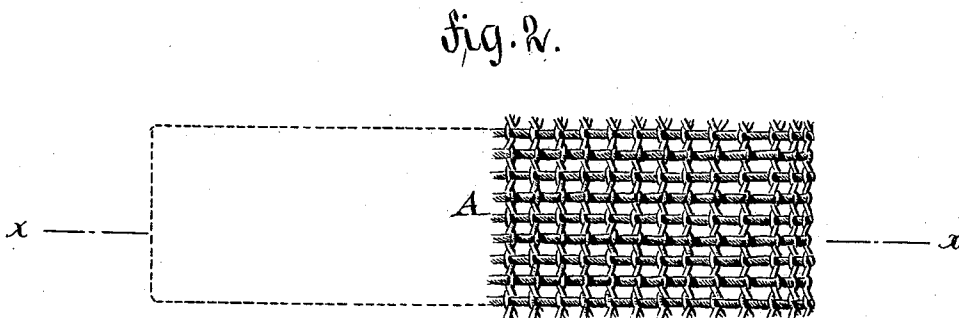
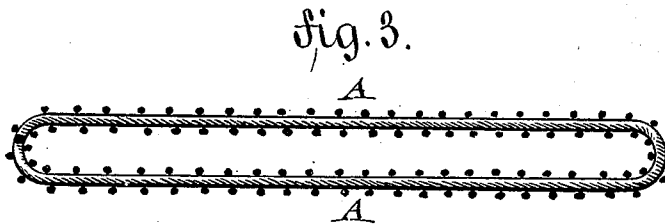
(No Model.)

B. MUENCH.

SHEATH FOR FILTERING BAGS FOR SACCHARINE LIQUIDS, &c.

No. 361,594.

Patented Apr. 19, 1887.



WITNESSES

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BERNHARD MUENCH, OF BROOKLYN, NEW YORK.

SHEATH FOR FILTERING-BAGS FOR SACCHARINE LIQUIDS, &c.

SPECIFICATION forming part of Letters Patent No. 361,594, dated April 19, 1887.

Application filed March 28, 1885. Renewed November 30, 1886. Serial No. 220,237. (No model.)

To all whom it may concern:

Be it known that I, BERNHARD MUENCH, of Brooklyn, in the county of Kings and State of New York, have invented certain new and useful Improvements in Sheaths for Filtering-Bags for Saccharine Liquids, &c., of which the following is a specification.

In the filtering of saccharine liquors interior filtering-bags of twilled fabric are employed, which are inclosed by exterior bags or sheaths of cylindrical shape. These sheaths are made of coarser material, and of a smaller diameter than the interior bag, so as to cause the latter to form a number of folds and produce thereby a large filtering-surface in a small space. The filtering-bags and their sheaths retain the gum and other impurities contained in the saccharine liquor, and have to be frequently removed and washed, so as to remove the impurities deposited on their surface. The sheaths heretofore in use were made in the shape of seamless woven sleeves that were hemmed at the edges and were liable to shrink, whereby the openings between the meshes of the fabric became contracted, so that the saccharine liquor could not pass off freely through the fabric.

The object of my invention is to furnish for sugar-refineries and other establishments where filtering operations are carried on an improved sheath for filtering-bags which permits the saccharine liquor to drain off freely, and for which a coarser thread can be employed, so that they are more durable and capable of resisting wear; and the invention consists of a sheath for filtering-bags made of a seamless mesh-cloth, of cylindrical shape, having openings between the meshes, the sheath being hemmed at the ends.

In the accompanying drawings, Figure 1 represents a side elevation of my improved sheath for filtering-bags; and Figs. 2 and 3 are

a side view and a vertical transverse section on line *xx*, Fig. 2, of a portion of the bag, drawn on a larger scale.

Similar letters of reference indicate corresponding parts.

A in the drawings represents my exterior sleeve or sheath for filtering-bags, which is made of seamless mesh-cloth and provided with hems *a a* at both ends. The seamless fabric from which the sheath or exterior filtering-bag is made is woven on power-looms, in which two sets of warp-threads are alternately crossed, the weft-thread being passed first through between the upper set of warp-threads and back through the lower set of warp-threads. An open-meshed seamless fabric is thereby obtained, which is cut into pieces of the required length, which are then hemmed at the ends. The open-meshed sheaths require considerably less thread than the closely-woven sheaths heretofore in use, can be made of a stronger thread, and are consequently stronger and more durable than the closely-woven sheaths, while they permit the easier passing off of the filtered liquor from the interior bags, owing to the open meshes of the fabric.

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

A sheath for filtering-bags, made of a seamless sleeve of open-meshed fabric, hemmed at the ends, substantially as and for the purpose set forth.

In testimony that I claim the foregoing as my invention I have signed my name in presence of two subscribing witnesses.

BERNHARD MUENCH,

Witness:

PAUL GOEPEL,
CARL KARP.