

No. 679,208.

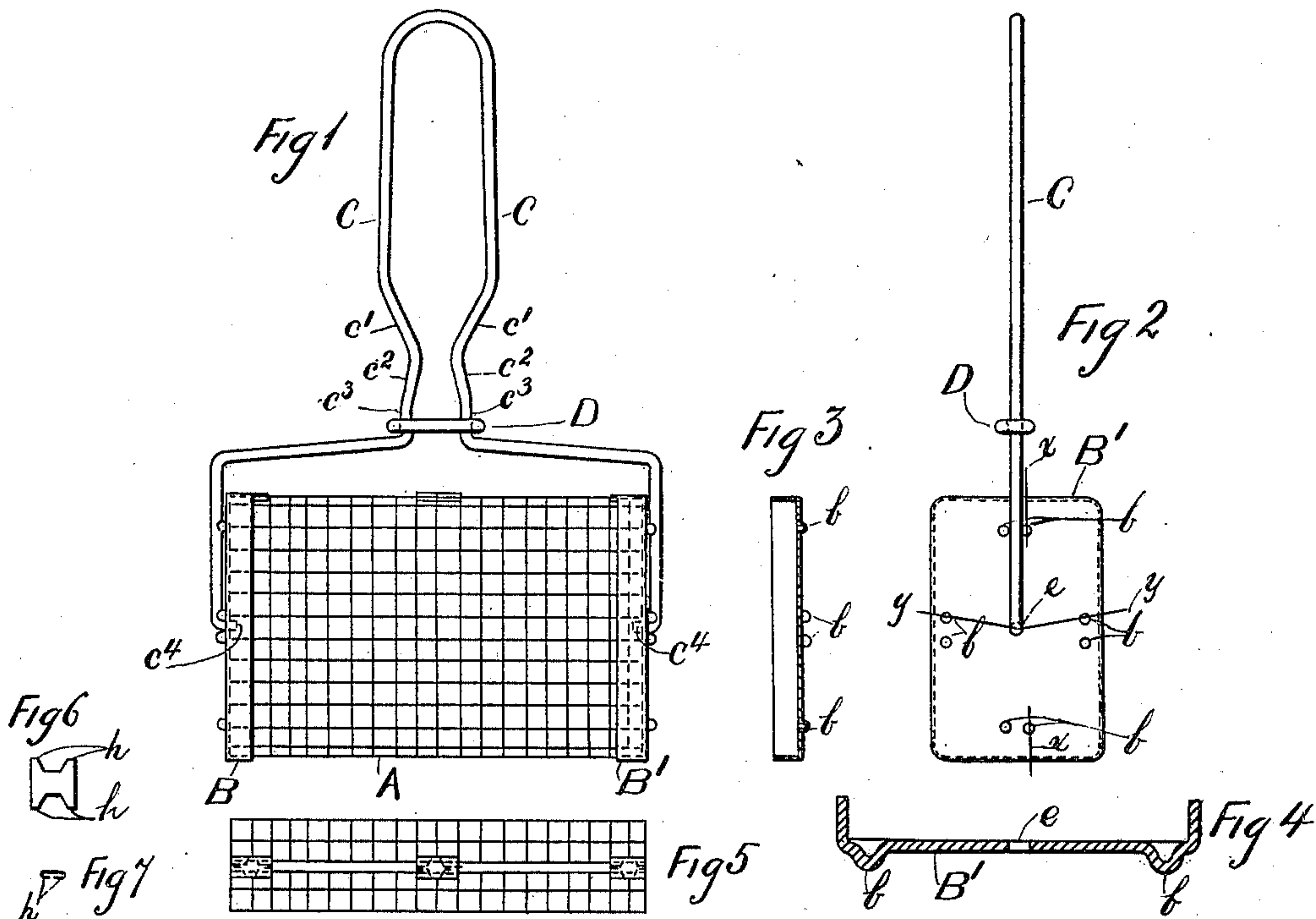
Patented July 23, 1901.

F. J. BETTS.

SOAP CAGE.

(Application filed Jan. 23, 1901.)

(No Model.)



Witnesses
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UNITED STATES PATENT OFFICE.

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SOAP-CAGE.

SPECIFICATION forming part of Letters Patent No. 679,208, dated July 23, 1901.

Application filed January 23, 1901. Serial No. 44,465. (No model.)

To all whom it may concern:

Be it known that I, FRANK J. BETTS, a citizen of the United States, and a resident of East Orange, in the county of Essex and State of New Jersey, have invented certain new and useful Improvements in Soap-Cages, of which the following is a specification.

This invention relates to apparatus for holding in place materials which are to be acted upon by fluids, the said fluids either to flow or spray upon them, or the apparatus with the said materials are immersed in the fluids.

The object of the invention is the production of a cage with appurtenances into which materials can be easily introduced or discharged, the said cage arranged so that it can be suspended or placed upon a support, and in either case in different operative positions.

The device shown in the drawings shows its application to a holder for cakes of soap, and particularly for large cakes as furnished by manufacturers. By the use of my device the trouble of cutting soap and the resultant waste are avoided. The holder can be held under a faucet while the water is running and will make sufficient suds for most purposes.

The cage keeps the soap clean and avoids having soap sticking on crockery, as is frequently the case when the soap is put in a dish-pan without a protector. It is constructed so that it can be hung up in a convenient place over a sink or can be placed on one of its sides in the sink.

Figure 1 represents a front view of the improved cage with its appurtenances. Fig. 2 shows an end view. Fig. 3 is a section on the line $x x$ of Fig. 2. Fig. 4 represents an enlarged section on the line $y y$ of Fig. 2. Fig. 5 shows a top view of a portion of the body of the cage. Fig. 6 represents a plan of a clamp. Fig. 7 is an end view of clamp bent in operative position.

The device is shown to consist of a wire-cloth body A, which is rectangular in cross-section, with curved corners. Bonnets B B' fit on the ends of the body, the bonnet B being generally tightly secured thereto and the bonnet B' fitting loosely to allow it to be taken off for the introduction of the cake of soap or other material. The apparatus may be made with both bonnets fitting loosely to the body, which latter need not be confined to the shape

here shown. A handle C C is hooked to the bonnets and holds the loose bonnet or bonnets in place. The bonnets are cup-shaped, and each contains a hole e through its center and projections b on its outer surface. These projections are formed in the bonnets in pairs, each pair generally having a pair opposite and equidistant from the hole in the center of the bonnet.

The body A may be made of a continuous piece of wire-cloth or other material with perforations; but my preferred form is to secure a piece of wire-cloth on abutting longitudinal seams with clamps H. These clamps before being bent into operative position are shaped with four ears h , the said ears being bent on the abutting longitudinal members of the wire-cloth, as shown in Figs. 1 and 5.

The handle is of a special construction and is shown to consist of a loop with legs C C running parallel for portions of their lengths, when they converge, as at c' , and then again diverge, as at c'' , and next run parallel, as at c''' , after which they make approximately right angles and extend approximately parallel with the body of the cage, and then make another approximate right angle to extend parallel to the faces of the bonnets, which they enter by terminating in hooks c^4 . A slip lock-band D holds the legs of the handle in position when the bonnets are both on the body, as shown in Fig. 1.

When it is desired to detach the handle from the cage, the slip lock-band D is moved up the legs of the handle until it is in its narrowest portion, which allows the springing of one of the legs, and consequently the easy detachment of the bonnets to place a new piece of soap or other material into the cage.

It will be seen that the body of the device can be turned ninety degrees from the position shown in Fig. 1 and, further, that the handles can be clamped with any pair of projections b , Fig. 1, and, further, that other projections similar to b could be inserted in the bonnets for various positions of the body with respect to the handle. It will further be seen that the bonnets are rectangular in their end views, with their corners curved, which is found convenient when it is desired to place the cage on a support.

Having described my invention, I desire to

secure by United States Letters Patent and claim—

1. A cage, bonnets on the ends of the cage and having holes, projections on the outer
5 faces of the bonnets, a detachable handle hooked into the holes in the bonnets, and also secured by the said projections on the bonnets, in combination with a slip lock-band on the handle.

10 2. A holder, comprising a cage-body, a bonnet tightly secured to one end of the cage-body and having a hole, a bonnet slipped over the opposite end of the cage-body and having a hole, projections on the outer faces of the
15 bonnets, a detachable handle hooked into the holes in the bonnets, and also secured by the projections on the bonnets, in combination with a slip lock-band on the handle.

20 3. A holder, comprising a cage-body, clamps on the cage-body, ears on the clamps bent

over the abutting ends of the cage-body, bonnets on the ends of the cage-body and having holes, projections on the outer faces of the bonnets, a detachable handle hooked into the holes, and also secured by the said projec- 25 tions on the bonnets, in combination with a slip lock-band on the handle.

4. A holder comprising a cage A, bonnets B, B' at the ends of the cage, projections b on the outer faces of the bonnets, a detach- 30 able handle C C, hooked to the bonnets, and a slip lock-band D on the handle.

Signed at New York, in the county of New York and State of New York, this 21st day of January, A. D. 1901.

FRANK J. BETTS.

Witnesses:

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