

F. G. & W. F. NIEDRINGHAUS

SPOUTS AND STRAINERS.

No. 189,640.

Patented April 17, 1877.

FIG. 1.

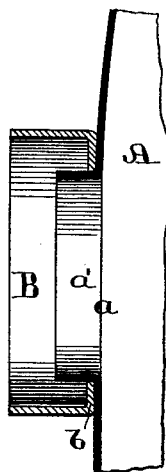
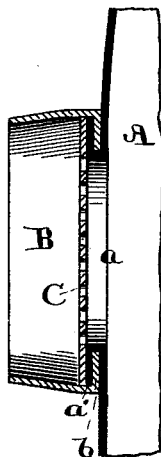


FIG. 2.



ATTEST.

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IMPROVEMENT IN SPOUTS AND STRAINERS.

Specification forming part of Letters Patent No. **189,640**, dated April 17, 1877; application filed
March 7, 1877.

To all whom it may concern:

Be it known that we, FREDERICK G. NIEDRINGHAUS and WILLIAM F. NIEDRINGHAUS, residents of St. Louis, Missouri, have made a new and useful Improvement in the Mode of Attaching Spouts and Strainers of Vessels of Enamelled Sheet-Iron Ware, of which the following is a full, clear, and exact description, reference being had to the annexed drawing, making part of this specification, in which—

Figure 1 is a sectional view, showing a portion of the body of a vessel to which the spout and strainer are to be attached, and the flange used in attaching them, the parts being arranged as before the fastening of the flange in position; and Fig. 2, another sectional view, showing the flange, and also the strainer, attached to the body of the vessel.

Similar letters refer to similar parts.

In the present invention the spout is not directly attached to the body of the vessel, but to a flange that, in turn, is fastened to the body.

In the annexed drawing, A represents the body of a vessel, and *a* the opening for the spout. Around this opening, and outward from the vessel, a flange, *a'*, is turned, as shown in Fig. 1. A collar, B, having at its inner end an inwardly-projecting flange, *b*, is then placed upon the flange *a'*, the former flange being fitted to slip onto the latter, as shown. The flange *a'* of the body A is then turned down over and upon the flange *b* of the collar, locking the latter firmly to the vessel, as shown in Fig. 2. The spout (not shown) is then attached to the collar.

The improvement is intended especially for a vessel the body of which is finished with a coating of enamel, but having an ordinary metallic spout. We therefore make the body of the vessel of a metal to which enamel adheres; but the collar B is of a metal from which, as the vessel cools after baking, the enamel splinters off. This enables the spout to be attached to the collar by soldering.

The spout can be attached independently of the strainer C. This part, (the strainer,) however, can be attached as shown in Fig. 2, and as follows: The strainer is made to fit closely into the collar, and, after the latter is fastened in position, the strainer is placed against the flange *a'*. The collar outside the strainer is then slightly contracted, as shown in Fig. 2, operating to fasten the strainer in place.

The enamel is applied to the vessel, preferably, after the strainer is attached.

We claim—

1. The enameled body A, having the flange *a'*, and the collar B, having the flange *b*, without enamel, combined substantially as and for the purpose described.

2. The combination of the enameled body A, having the flange *a'*, the collar B, having the flange *b*, without enamel, and contracted as described, and the strainer C, substantially as described.

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Witnesses:

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