

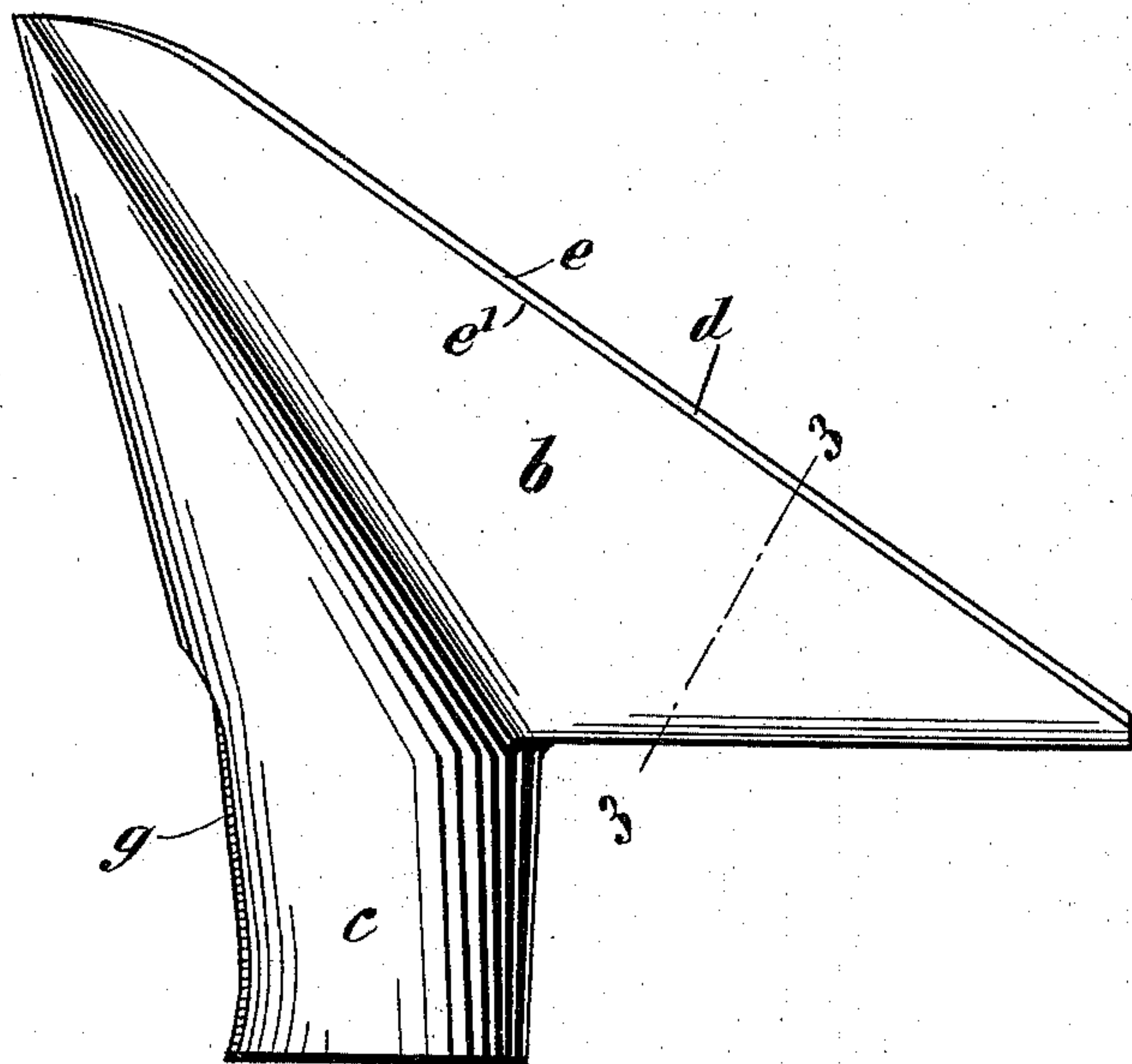
(No Model)

M. S. KJELLSTROM.  
SPOUT ATTACHMENT FOR KETTLES.

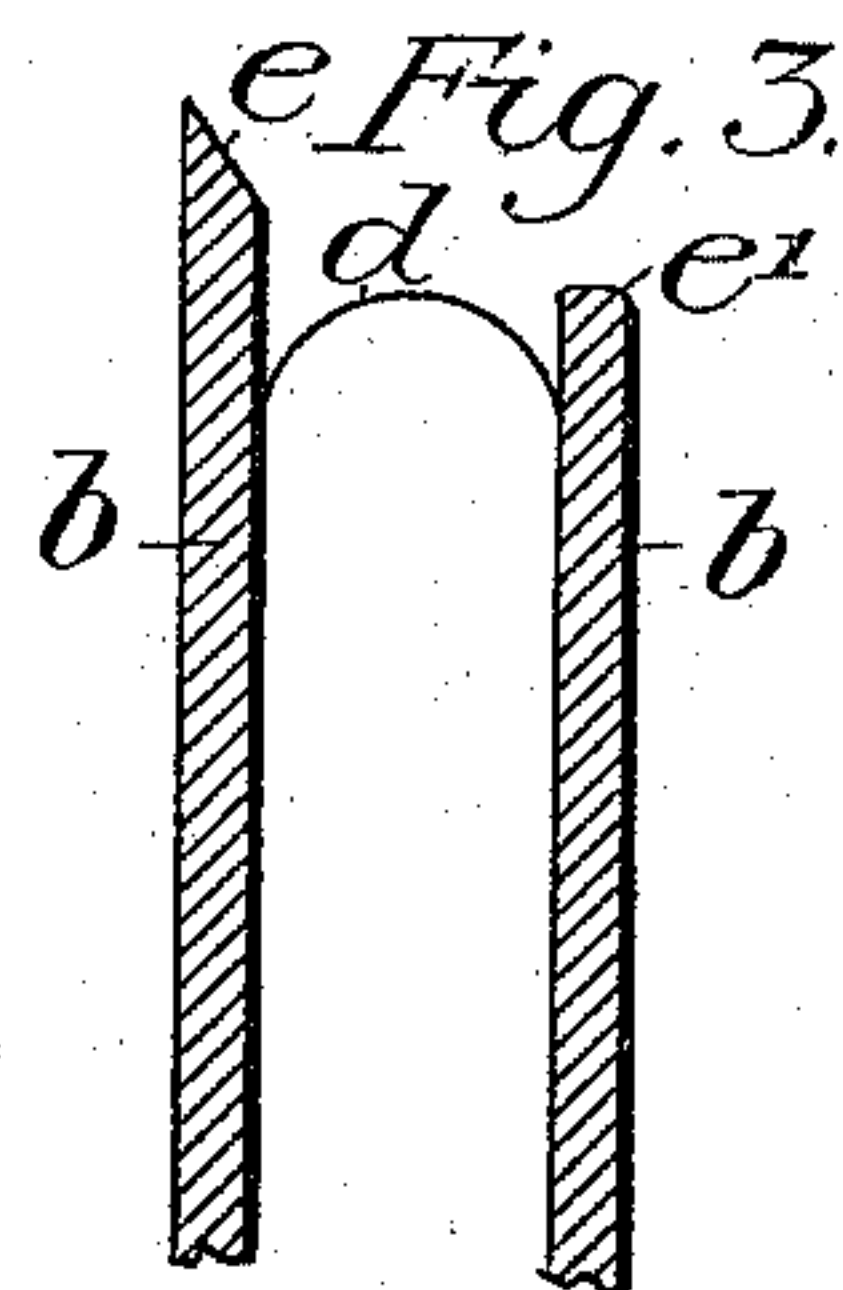
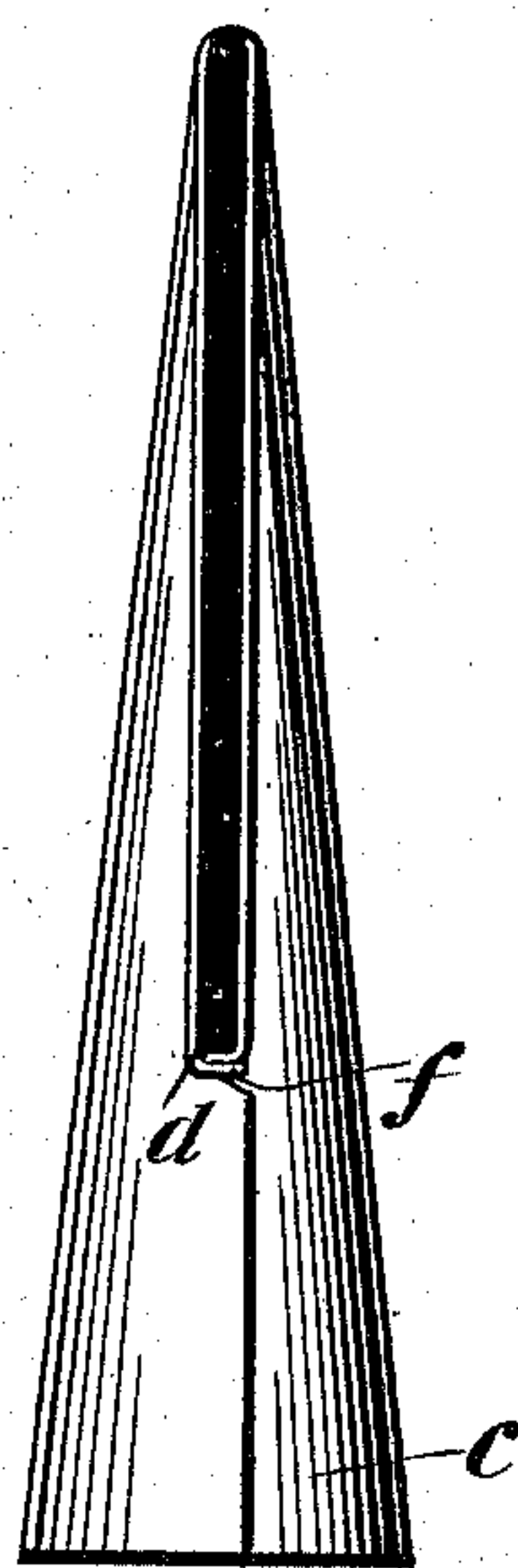
No. 573,330.

Patented Dec. 15, 1896.

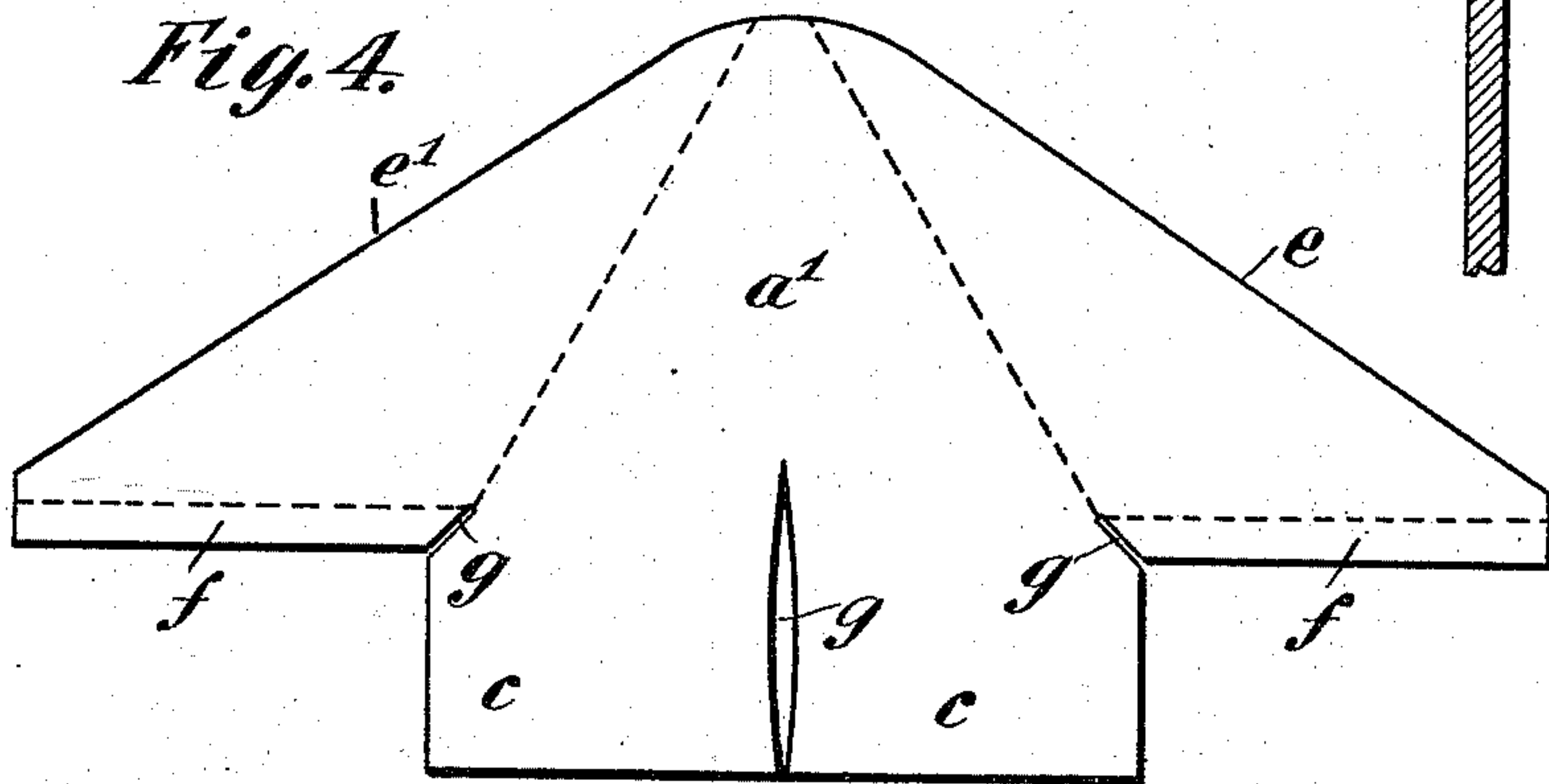
*Fig. 1.*



*Fig. 2.*



*Fig. 4.*



Witnesses  
John S. Nordstrom  
R. J. Elliott.

Mary Sofia Kjellstrom Inventor  
By her Attorney Harry Schreiter



# UNITED STATES PATENT OFFICE.

MARY SOFIA KJELLSTROM, OF NEW YORK, N. Y.

## SPOUT ATTACHMENT FOR KETTLES.

SPECIFICATION forming part of Letters Patent No. 573,330, dated December 15, 1896.

Application filed December 6, 1895. Serial No. 571,247. (No model.)

*To all whom it may concern:*

Be it known that I, MARY SOFIA KJELLSTROM, of New York city, in the county and State of New York, have invented certain new and useful Improvements in Spout Attachments for Kettles and Similar Vessels, of which the following is a specification.

My invention relates to utensils for renovating ribbons and similar fabrics by exposing them to the action of steam while they are drawn over a smoothly-finished acute edge; and it consists of the herein-described spout attachment for kettles and similar vessels adapted to be used for generating steam required in the renovating process, and is shown in the accompanying drawings, wherein—

Figure 1 is a side elevation of the ribbon-renovating spout attachment; Fig. 2, an end elevation thereof; Fig. 3, a section on the line 3 3 indicated in Fig. 1. Fig. 4 shows the shape of the blank of sheet metal before it is bent into its finished form.

Similar letters of reference indicate corresponding parts in all the views.

Ribbons and similar fabrics are easily crushed out of shape and crumpled in damp weather. They cannot be ironed, because their delicate structure will not withstand the pressure of the smoothing-iron. Steam, not very hot, has been found to be the best medium for restoring ribbons and similar fabrics to their original shape and softness, and there have been several elaborate devices invented for the purpose. There are, however, none so simple in construction, being at the same time so efficient in accomplishing its purpose and so cheaply produced, as my improved spout attachment for kettles that can be bought and operated in every household.

I have found that the most essential feature of a ribbon-renovator is a smoothly-finished acute edge over which the ribbon, softened by the action of steam, is drawn, the result attained being the better the keener and smoother the edge.

With these ends in view I have invented my improved ribbon-renovating attachment for spouts of kettles, these being the most available generators of steam in a household.

The attachment, however, can be used in connection with any nozzle or other source of steam-supply and will be found to serve exceedingly well for its purpose.

My ribbon-renovating spout attachment for kettles and similar vessels is produced of one single piece of sheet metal. The shape of the blank shown in Fig. 4 consists of a triangle  $a'$ , having its vertex rounded, and of a rectangle  $c$ , connected to it near the center of its longest side. This rectangle  $c$  has a curved slit  $g$  up its center, and short diagonal slits at the junctions of the sides of the rectangle with the triangle. When this blank sheet is folded in the manner described hereinafter, the triangle forms the sides and orifice of the spout attachment and the rectangular part of the blank forms the stem, which is adapted to be slid over the end of the spout of a kettle or similar vessel.

The blank is cut in the described shape by appropriate dies in a stamping-machine. Edges  $f$  are bent at right angles along the dotted lines, joining the above-mentioned short slits  $g$ . (Shown in Fig. 4.) Then the blank is bent on a flat mandrel and its triangular part  $a'$  pressed into a nozzle  $b$  and the elongated orifice  $d$  formed. Next the stem is rolled conically, tapering toward the highest point of orifice  $d$ , and edges  $f$  soldered. Then the edges of the curved slit  $g$  are joined by pressing in the sides of the stem and soldered. This compression gives the stem the shape of an inverted frustum of a cone, showing a curved projection at the upper end of slit  $g$ . This is done for the purpose of making the stem fit on spouts curved as indicated in Fig. 1. Finally, edge  $e$  is smoothed and sharpened.

The stem of the spout attachment is set under such an angle to the edges  $e$  and  $e'$  that when the stem is slid on the spout of a kettle these edges are approximately in horizontal position. Edge  $e$  of the orifice is made slightly higher than the other, as at  $e'$ , to prevent the shutting off of the steam passing through the orifice when the ribbon is drawn over it, and to give the steam wider space to come in contact with the ribbon before it reaches the smoothing edge  $e$ , and to exert its effect on it, thus preparing the ribbon for this edge to operate on, and at the same time the



higher edge *e* prevents the steam from reaching that part of the ribbon drawn beyond this edge and smoothed.

My improved spout attachment for kettles 5 and similar vessels possesses a great structural advantage, the smoothing edge, over which the ribbon is drawn in the renovating process, being almost in line with the axis of the spout, and therefore the force exerted 10 upon it does not affect its stability. There is also no joint exposed to any strain tending to break it apart or twist. The smoothing edge over which the ribbons are drawn is keen, though not keen enough to cut, wedg- 15 ing into every wrinkle of the ribbon, and therefore only a slight pressure suffices to efface these wrinkles and to restore the ribbon.

I claim and desire to secure by Letters Patent—

20 1. A device for renovating ribbons, velvets and similar fabrics, comprising a hollow conically-shaped stem, adapted to be set on the

end of a steam-conductor and a nozzle for conducting the steam to the fabrics to be renovated, the nozzle having a narrow longitudinal aperture, with one smoothly-finished 25 and acute edge, carried above the other and forming a comb over which the fabrics to be renovated are drawn.

2. An attachment for the spout of a kettle, 30 for renovating ribbons, velvets and similar fabrics, comprising a cone, having a narrow longitudinal aperture with one edge carried above the other and forming a comb over which the fabrics to be renovated are drawn. 35

In witness that I claim the improvements described in the foregoing specification I have signed my name in the presence of two subscribing witnesses.

MARY SOFIA KJELLSTROM.

Witnesses:

RICHARD I. ELLIOTT,  
JOHN P. NORDSTROM.