

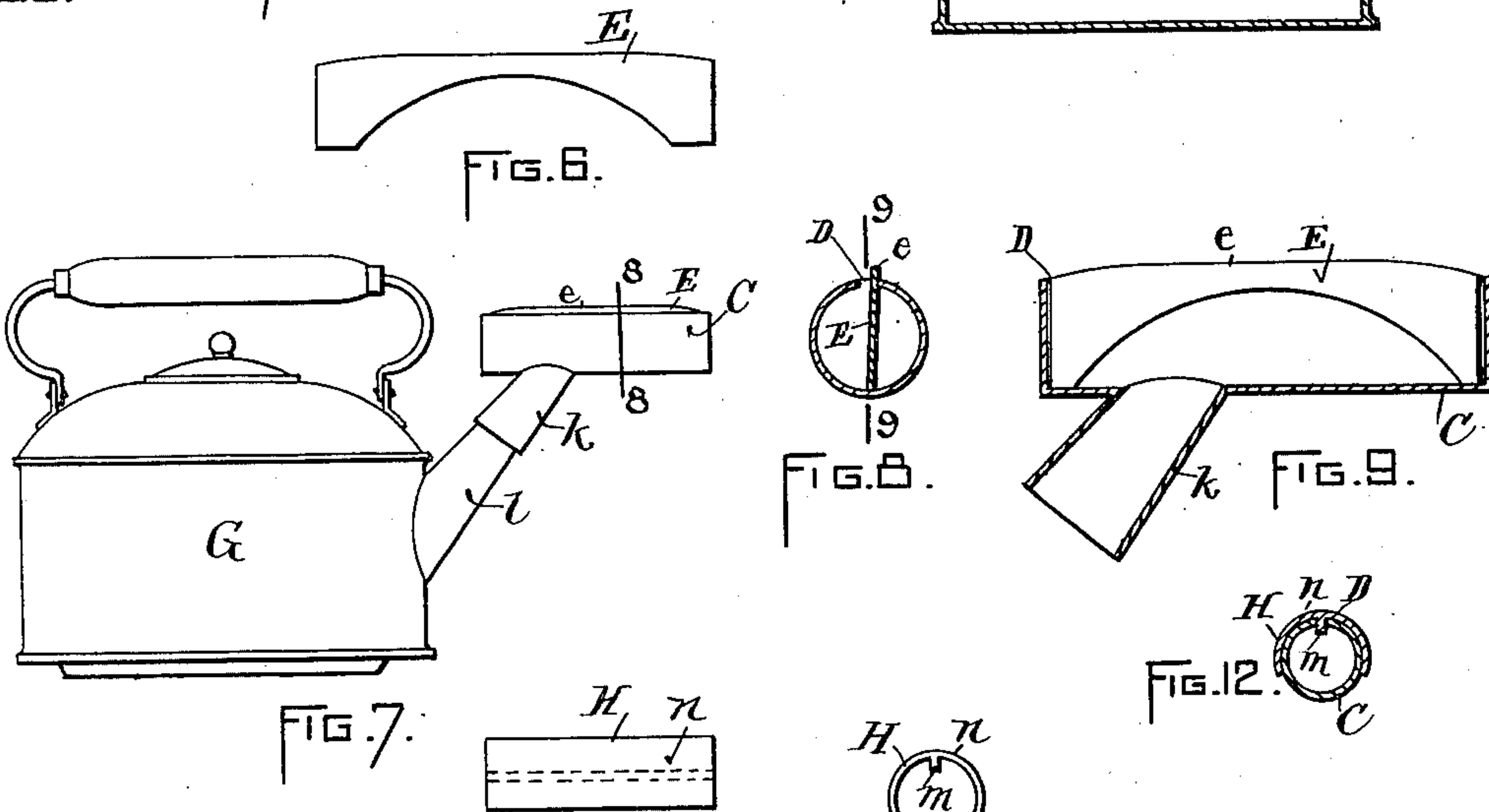
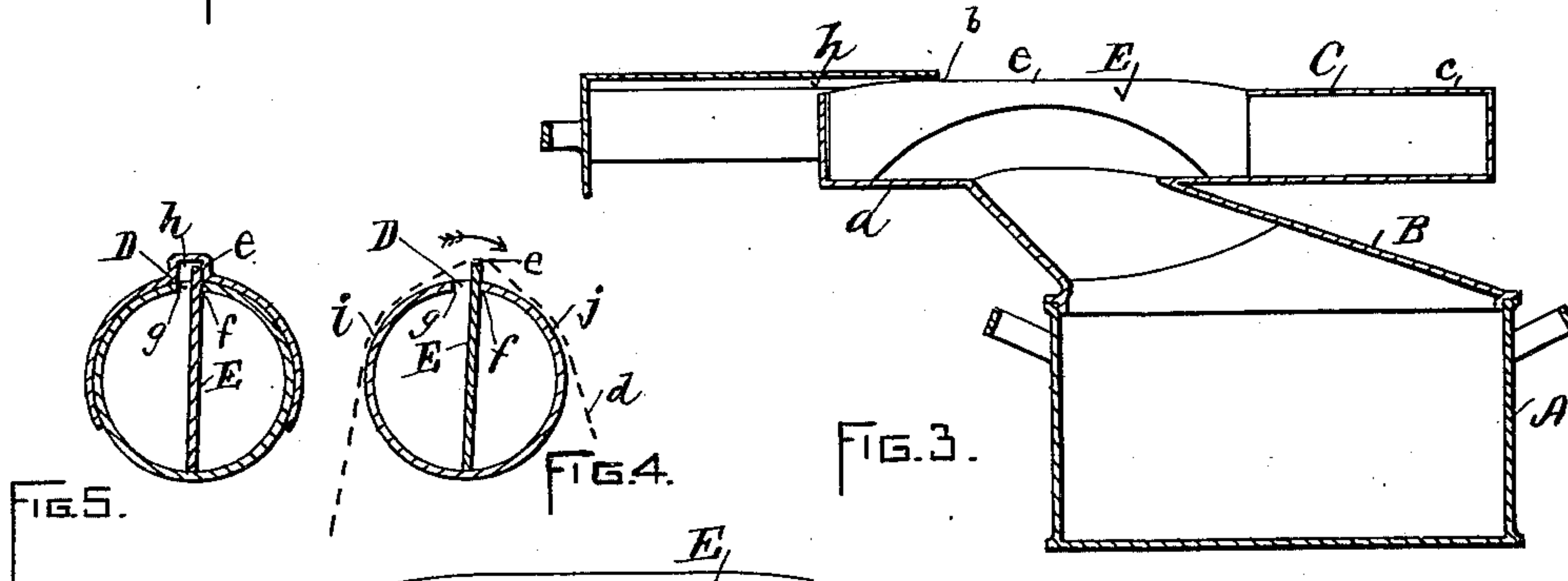
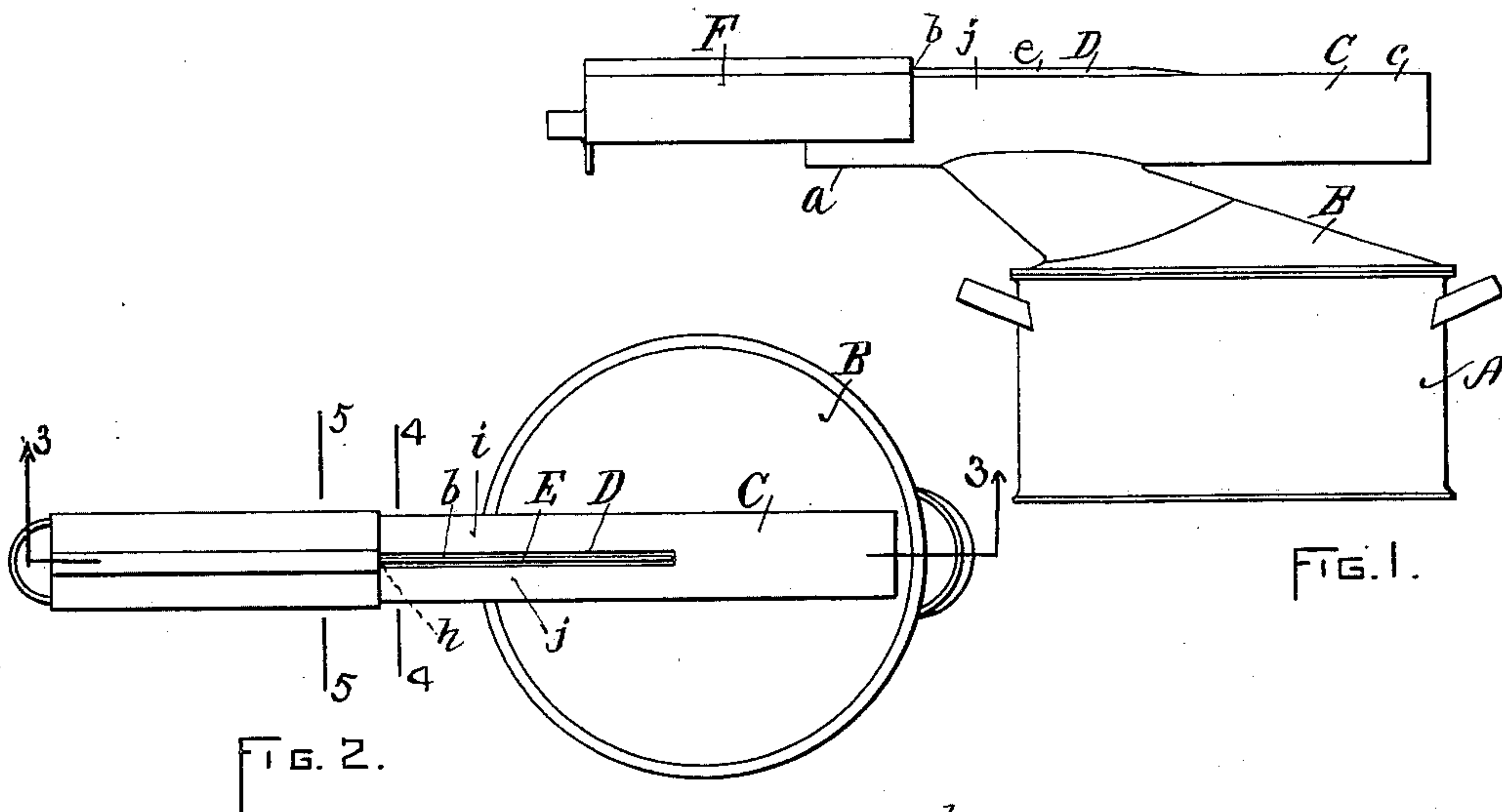
No. 658.328.

Patented Sept. 18, 1900.

J. B. ALLEN & C. D. HALL.
STEAM RENOVATOR FOR FABRICS.

(Application filed May 14, 1900.)

(No Model.)



WITNESSES:

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FIG. 10.

FIG. 11.

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UNITED STATES PATENT OFFICE.

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STEAM-RENOVATOR FOR FABRICS.

SPECIFICATION forming part of Letters Patent No. 658,328, dated September 18, 1900.

Application filed May 14, 1900. Serial No. 16,679. (No model.)

To all whom it may concern:

Be it known that we, JAMES B. ALLEN and CORTEZ D. HALL, citizens of the United States, residing at Providence, in the State of Rhode Island, have invented a new and useful Improvement in Steam Renovators and Ironers for Fabrics, of which the following is a specification.

Fabrics of velvet, plush, silk, satin, &c., when crumpled by dampness cannot be ironed in the usual manner, because they are not able to withstand the pressure of the smoothing-iron. Hence the process of steaming must be resorted to in connection with an ironing means which operates under a very light pressure; and the object of our invention is to provide an inexpensive and effective apparatus for restoring the crumpled fabrics to their original smooth and extended condition by exposing them to the action of steam while they are at the same time being drawn lightly over a suitable ironing-surface; and our invention consists in the employment of a kettle for generating steam in connection with a tube provided with a longitudinal slot-opening for the escape of steam and having smooth ironing-surfaces at opposite sides of the slot and in the employment of a movable steam-deflector held within the slot of the tube and operated by the movement of the fabric to cause the discharge of the steam first at one side and then at the other side of the deflector.

Our invention also consists in the employment of a sliding cover for adjusting the length of the opening for the escape of steam from the slot of the tube in conformity to the width of the fabric to be ironed and in means for closing the slot to prevent the escape of steam.

In the accompanying drawings, Figure 1 represents a side view of a steam-kettle provided with our improved renovator and ironer. Fig. 2 represents a top view of the same. Fig. 3 represents a vertical section taken in the line 3 3 of Fig. 2, showing a side view of the steam-deflector. Fig. 4 represents an enlarged vertical section taken in the line 4 4 of Fig. 2. Fig. 5 represents an enlarged vertical section taken in the line 5 5 of Fig. 2. Fig. 6 represents a side view of the steam-deflector removed from the tube. Fig. 7 represents the side view of an ordinary

tea-kettle, to the spout of which our improved renovator and ironer is attached. Fig. 8 represents an enlarged vertical section taken in the line 8 8 of Fig. 7. Fig. 9 represents a section taken in the line 9 9 of Fig. 8. Fig. 10 represents the top view of a removable cover for the slot in the tube of Fig. 7. Fig. 11 represents an end view of the same. Fig. 12 represents a vertical section taken through the tube and cover when the cover is in position.

In the drawings, Figs. 1, 2, and 3, A represents the kettle, in which the steam is to be generated, to the removable cover B of which is connected the horizontal tube C, closed at its ends and provided at its upper side with the slot D, through which the steam from the kettle may escape onto the under side of the fabric. Within the slot D is placed the loose removable deflector E, a side view of which is shown in Fig. 6, and to the projecting end *a* of the tube C is connected the sliding cover F, by means of which the extent of the opening *b* for the escape of steam from the slot D may be adjusted to conform to the width of the ribbon or piece of fabric which is to be renovated and ironed, the said sliding cover being removable from the tube C when required. In the employment of the apparatus the fabric may be either drawn over the smooth end portion *c* of the steam-heated tube C for ironing or it may be drawn over the slot D, through which the steam will escape against the under side of the fabric, the fabric being thereby both steamed and ironed, and upon the insertion of the deflector E within the slot D then as the fabric *d* (shown by dotted line in Fig. 4) is pulled in direction of the arrow over the projecting edge *e* of the deflector E the said deflector will be drawn to the side *f* of the slot, and when the motion of the fabric is reversed the deflector will be carried over against the side *g* of the slot, so that the steam in either case will impinge upon the surface of the fabric prior to its passage over the edge *e*, and when the sliding cover B is employed for limiting the extent of the steam-opening *b* the projecting edge *e* of the deflector will be caused to move back and forth within the groove *h* of the said cover, which coincides with the slot D. The fabric *d*, as shown in Fig. 4, will be stretched

by being drawn over the edge *e* and will also be ironed out by contact with the heated cylindrical surfaces *i* and *j* at the opposite sides of the slot D. In the form of construction shown in Fig. 7, where the slot D extends for the whole length of the tube C, which is connected by means of the branch tube *k* with the spout *l* of the kettle G, we provide a cover H, adapted to clasp the sides of the tube C, as shown in the section, Fig. 12, the said cover being provided with an interior rib *m*, which enters the slot D, and by means of the said cover the said tube may be employed as an ironing apparatus without the escape of steam, the fabric being drawn back and forth over the outer surface *n* of the said cover.

We claim as our invention—

1. In an apparatus for renovating ribbons, velvets and similar fabrics, the combination of the tube provided with the longitudinal slot for the escape of the steam into the fabric, with the projecting deflector adapted for movement from side to side of the slot, substantially as described.

2. In an apparatus for renovating ribbons, velvets, and similar fabrics, the combination of the tube provided with the longitudinal slot for the escape of steam onto the fabric, and the projecting deflector, with the grooved sliding cover for limiting the escape-opening of the slot to the width of the fabric, substantially as described.

3. In an apparatus for renovating ribbons, velvets and similar fabrics, the combination of the steam-kettle, the kettle-cover provided with an attached horizontal tube, having a closed projecting end portion adapted for ironing the fabric and a slotted end portion adapted for steaming the fabric, with a projecting edge over which the fabric being steamed is drawn, and a sliding cover for varying the length of the slot-opening, substantially as described.

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