

(No Model.)

J. W. YATES.
SPOUT FOR TEA KETTLES.

No. 336,977.

Patented Mar. 2, 1886.

Fig. 1.

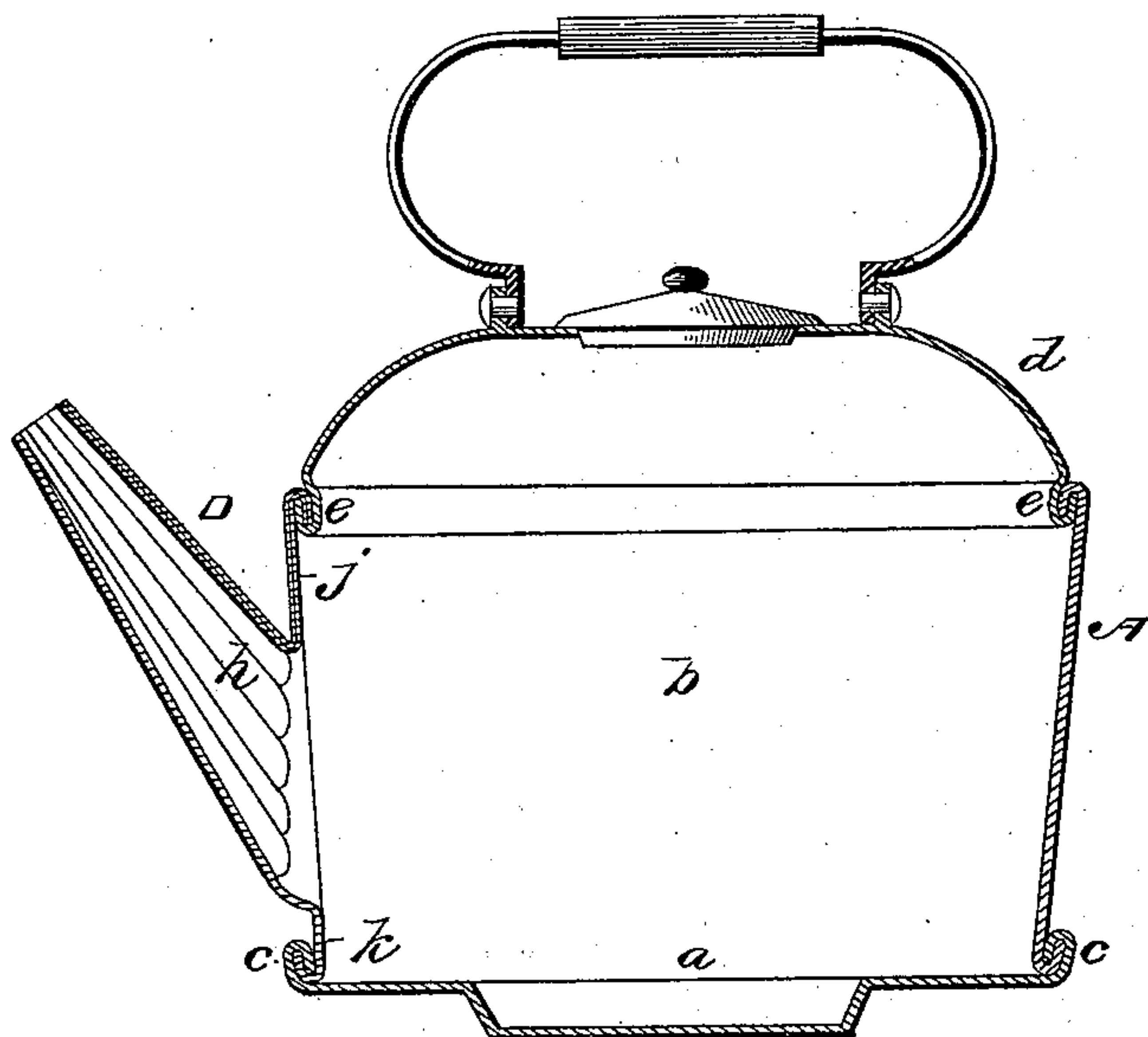


Fig. 2.

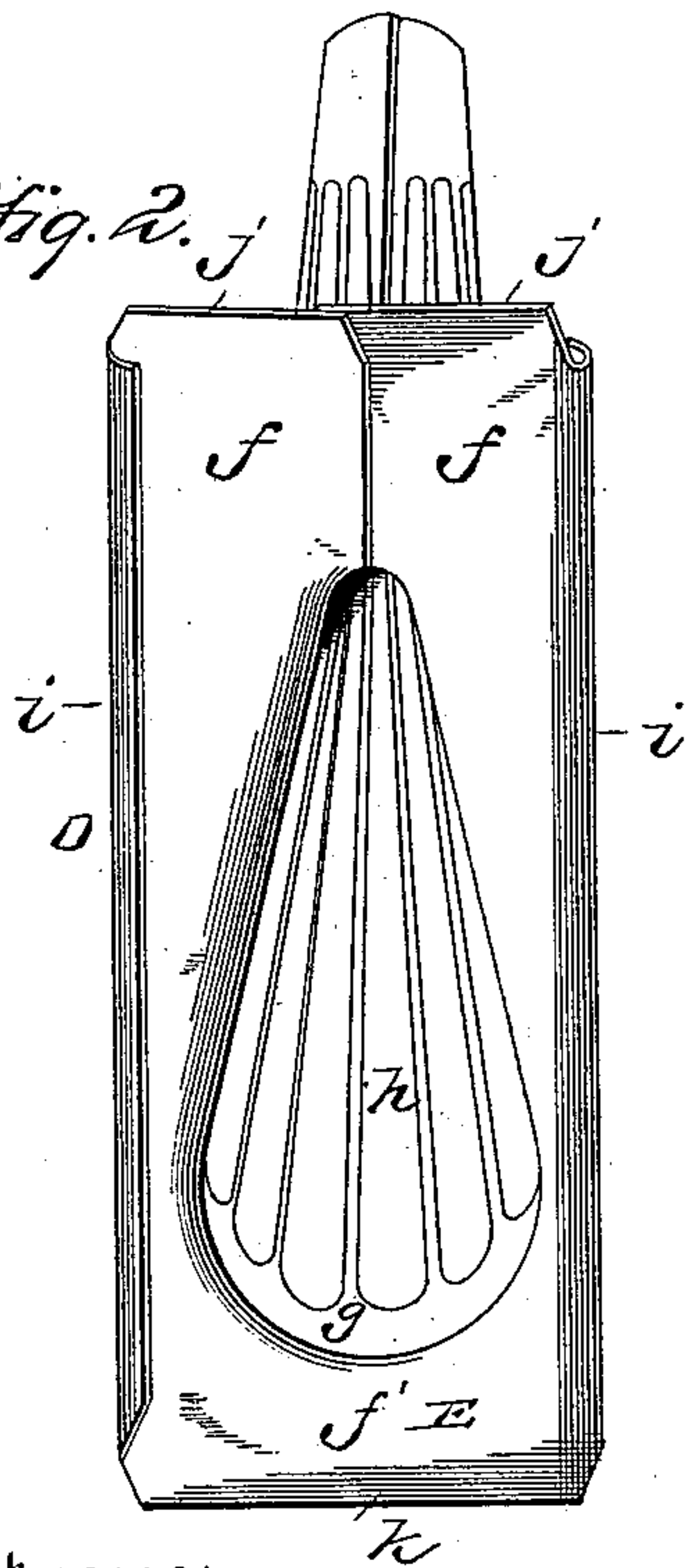
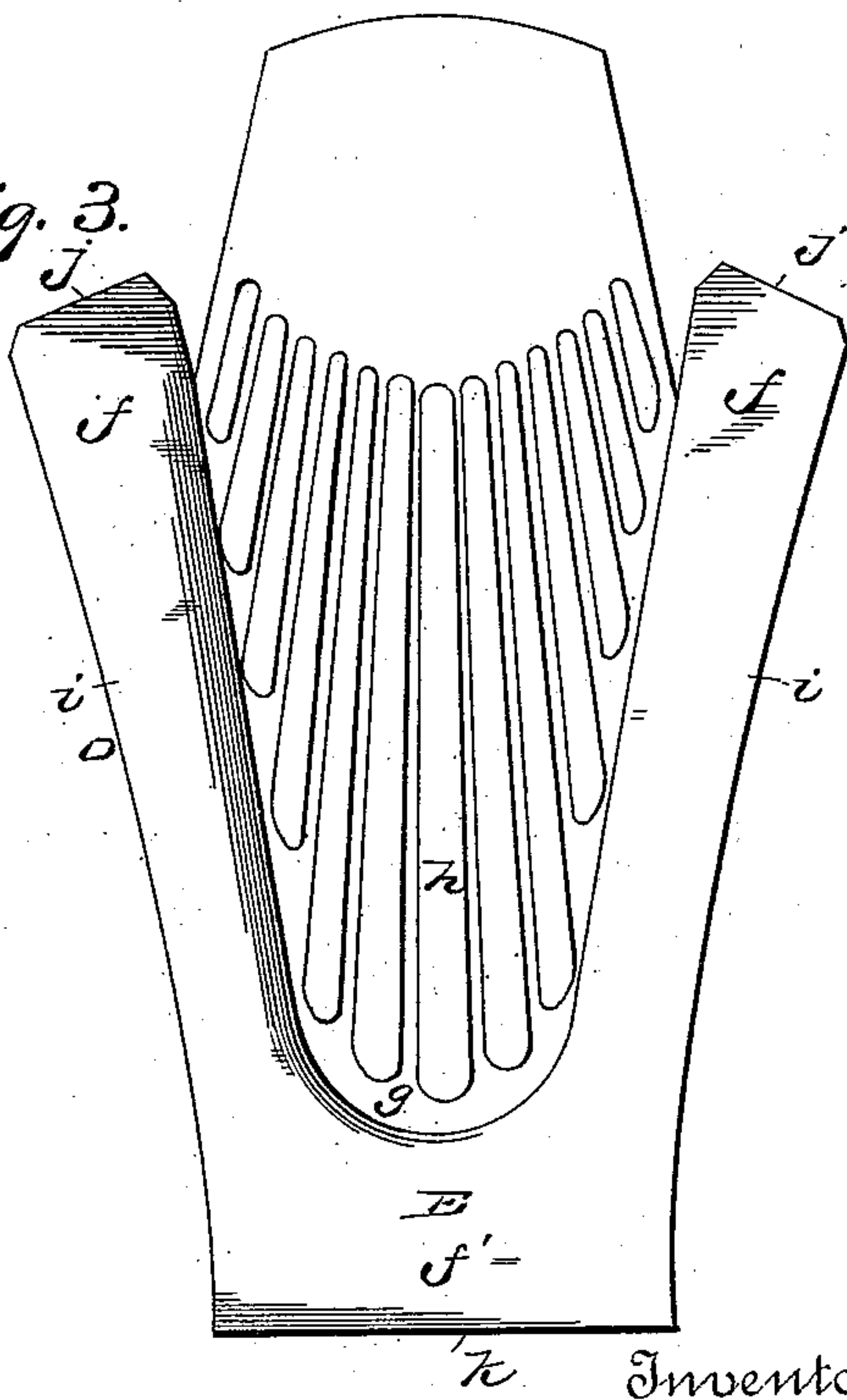


Fig. 3.



Witnesses

W. H. Schell
H. Berchard

Inventor

John W. Yates.

By his Attorneys,

C. A. Snow & Co.

UNITED STATES PATENT OFFICE.

JOHN W. YATES, OF BOURBON, INDIANA.

SPOUT FOR TEA-KETTLES.

SPECIFICATION forming part of Letters Patent No. 336,977, dated March 2, 1886.

Application filed October 30, 1885. Serial No. 181,398. (No model.)

To all whom it may concern:

Be it known that I, JOHN W. YATES, a citizen of the United States, and residing at Bourbon, in the county of Marshall and State of Indiana, have invented a new and useful Improvement in Spouts for Tea-Kettles, &c., of which the following is a specification, reference being had to the accompanying drawings.

My invention has relation to improvements in spouts for tea-kettles and the like; and it consists of the peculiar construction and arrangement of parts, substantially as hereinafter fully set forth, and pointed out in the claim.

The invention is especially designed as an improvement upon the tea-kettle spout patented to J. Ash on the 30th day of January, 1872, and numbered 123,215.

In the patent just mentioned it is very difficult to properly secure the spout to the body of the kettle, owing to the fact that the upper edges of the side wings of the spout provide but a limited space for seaming the kettle-body thereto, and the inner edges of spout proper have to be soldered to the kettle-body or seamed thereto independent of the side wings of the spout. This operation is very difficult to perform, and requires time and skill to successfully accomplish the same.

My invention has for its object to provide a spout for tea-kettles, which can be easily and quickly applied or secured to the body thereof, and without danger or liability to leak, and which shall be simple, strong, and durable in construction, and be manufactured very cheaply.

In the annexed drawings, Figure 1 is a central vertical section through a tea-kettle having my improved spout applied thereto. Fig. 2 is a detail perspective view of a spout ready to be secured to a kettle. Fig. 3 is a view of the blank from which the spout is formed.

Referring to the drawings, in which like letters of reference indicate corresponding parts in all the figures, A designates a tea-kettle of ordinary well-known construction, and D my improved spout.

The kettle and spout are formed from sheet metal, the kettle herein shown having a bottom, *a*, a body, *b*, secured to the bottom *a* by a double seam, *c*, and a top, *d*, secured to the body by a double seam, *e*, the body having an opening or space in its front vertical walls where the spout D is to be secured thereto.

The blank E from which the spout is formed is shown in Fig. 3, and has two lateral side arms, *f*, separated from the body *f'* thereof by diagonal cuts at their upper edges; and the upper, lower, and side edges of the body are curved or rounded, as shown, and at its middle said body *f'* of the blank is countersunk or depressed, as at *g*, and provided with a series of tapering corrugations, *h*.

The blank, the countersunk portion, and corrugations are cut or stamped by dies of suitable form or construction; and to form the spout the arms *f* are brought together by bending the blank at the middle countersunk portion, *g*, and leaving the side, the bottom, and top edges on the same plane, while the tapering corrugated spout projects beyond said side edges and at an angle thereto. (See Fig. 2.) The spout is thus provided with four wings or edges, which are on the same plane with each other, the side, top, and bottom wings being lettered *i*, *i'*, *j*, and *k*, respectively, as shown in Fig. 4, and these wings project beyond the spout proper and serve as a convenient and easy means of attachment to the kettle.

The edges of the wings are secured to the kettle by double-seaming, to prevent any leakage, the wings *i* *i'* being secured to the vertical edges of the opening in the kettle-body, the top wing, *j*, to the lower edge of the cut-away portion or opening in the said body, and the lower wing, *k*, to the bottom of the kettle-body. It will thus be seen that I provide a spout which can be quickly and readily secured to the kettle-body, that any liability to leakage is obviated by reason of the strong and secure joint between the same, that the spout is simple, strong, and durable in its construction, and that it can be manufactured very cheaply.

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

5 A spout formed from a single piece of sheet
metal, consisting of a conducting-nozzle and
having projecting side, top, and bottom wings
arranged on the same plane, in combination
with a kettle-body, to which the several wings
are secured by double seams, as set forth.

In testimony that I claim the foregoing as
my own I have hereto affixed my signature
in presence of two witnesses.

JOHN W. YATES.

Witnesses:

JOHN D. THOMAS,
CHARLES H. NEW.