

No. 745,868.

PATENTED DEC. 1, 1903.

M. H. LAYBOURN.  
SHEET METAL FLUME.  
APPLICATION FILED JULY 26, 1902.

NO MODEL.

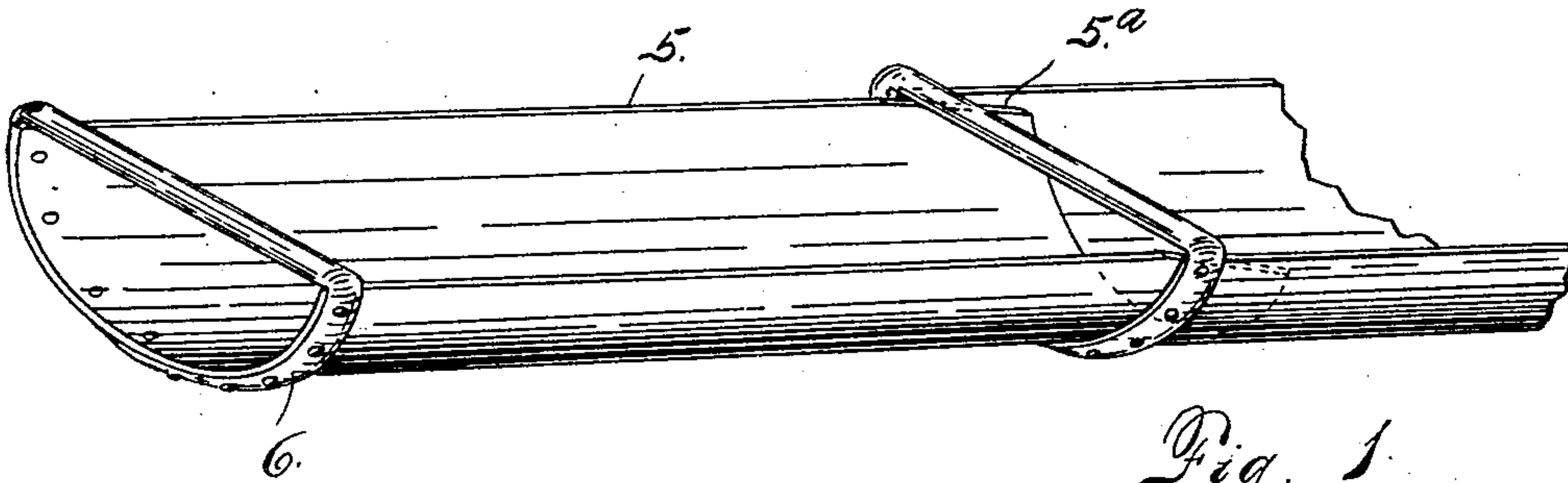


Fig. 1.

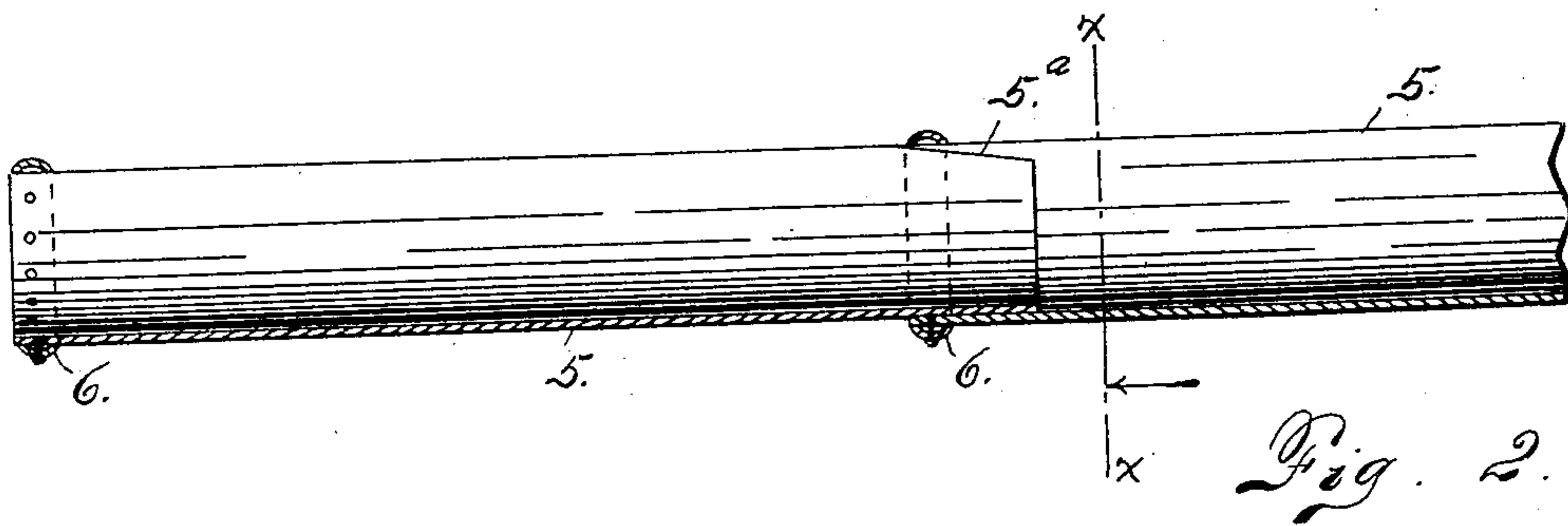


Fig. 2.

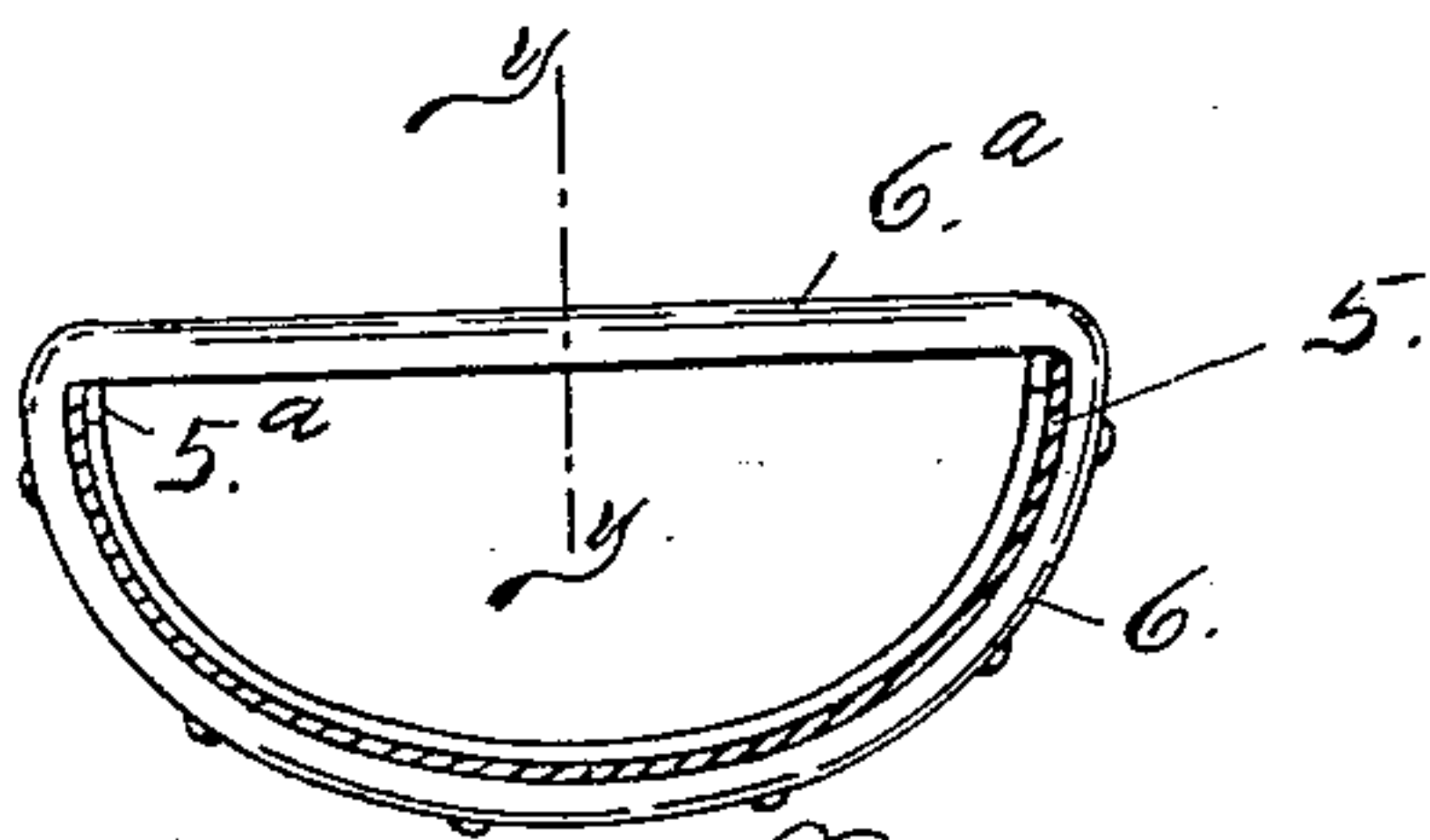


Fig. 3.



Fig. 4.



Fig. 5.



Fig. 6.

WITNESSES:

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# UNITED STATES PATENT OFFICE.

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## SHEET-METAL FLUME.

SPECIFICATION forming part of Letters Patent No. 745,868, dated December 1, 1903.

Application filed July 26, 1902. Serial No. 117,217. (No model.)

*To all whom it may concern:*

Be it known that I, MYRON H. LAYBOURN, a citizen of the United States of America, residing at Windsor, in the county of Weld and State of Colorado, have invented certain new and useful Improvements in Sheet-Metal Flumes; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the figures of reference marked thereon, which form a part of this specification.

My invention relates to improvements in portable metal flumes, my object being to provide a device of this class which shall be simple in construction, economical in cost, reliable, durable, and efficient in use; and to these ends the invention consists of the features, arrangements, and combinations hereinafter described and claimed, all of which will be fully understood by reference to the accompanying drawings, in which is illustrated an embodiment thereof.

In the drawings, Figure 1 is a perspective view of my improved flume, showing two sections connected, one of the said sections being partly broken away. Fig. 2 is a longitudinal section taken through the same. Fig. 3 is a cross-section taken on the line  $x x$ , Fig. 2. Fig. 4 is a cross-section taken on the line  $y y$ , Fig. 3. Figs. 5 and 6 show in cross-sections modified forms of construction for the metal reinforcing-band forming the connection between the flume-sections.

The same reference characters indicate the same parts in all the views.

Let the numeral 5 designate the flume-sections, which are composed of sheet metal of suitable dimensions, bent to form a waterway or conduit open at the top. To one end of each flume-section is applied a band 6, which engages the exterior surface of the section and extends across the top thereof, as shown at 6<sup>a</sup>, whereby the section is strengthened or reinforced. As shown in the drawings, this band is riveted to the section. It may, of course, be of any desired shape in cross-section. As shown in Figs. 1 to 4, inclusive, it is a curved metal piece, which is con-

cavo-convex in cross-section, its concave surface being turned inwardly. In Figs. 5 and 6 are shown other forms of construction, these forms being designated 6<sup>c</sup> and 6<sup>d</sup>, respectively. The extremity of the section to which the band is applied is adapted to receive the extremity remote from the band of another section which telescopes thereinto a short distance, the parts being constructed to permit this result. The extremity remote from the band of each section is cut away a short distance at its upper edges, forming an incline or bevel, as shown at 5<sup>a</sup>. When this inclined extremity of the flume-section passes beneath the part 5<sup>a</sup> of the reinforcing-band and is shoved forwardly, it causes the said section to wedge tightly, whereby the flume-sections are held securely together.

It is evident that this flume may be taken apart and transported from place to place and then set up again without the use of special frames or other appliances. Hence it is called a "portable" flume.

Having thus described my invention, what I claim is—

1. As an improved article of manufacture, a flume-section shaped to form a conduit open at the top, and provided with a metal band permanently secured to one end of the section exteriorly and extending across the top thereof, substantially as described.

2. A flume-section shaped to form a conduit open at the top and provided at one extremity with a reinforcing-band which is permanently secured to the section exteriorly and extends across the top thereof, its opposite extremity having beveled or inclined top edges, substantially as described.

3. As an improved article of manufacture, a flume composed of metal sections open at the top, each section having a band at one extremity, said band being riveted to the section exteriorly and extending across the top thereof, the sections being constructed and arranged to telescope, the extremity remote from the band extremity of each section being beveled to engage and be wedged tightly under the band extremity of the adjacent section, substantially as described.

4. As an improved article of manufacture, a flume composed of metal sections open at



the top, each section having a band at one extremity, said band being permanently secured by suitable fastening devices to the section exteriorly and extending across the top thereof, the opposite extremity of the section having its top edges inclined or beveled and arranged to join telescopically with the adjacent band extremity of another section, and be wedged therein by virtue of the fact that the inclined parts of one section engage the top part of the band of the other section.

In testimony whereof I affix my signature in presence of two witnesses.

MYRON H. LAYBOURN.

Witnesses:

R. E. HANNA,

R. C. BATES.