

W. M. REYNOLDS.

FLUME.

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986,025.

Patented Mar. 7, 1911.

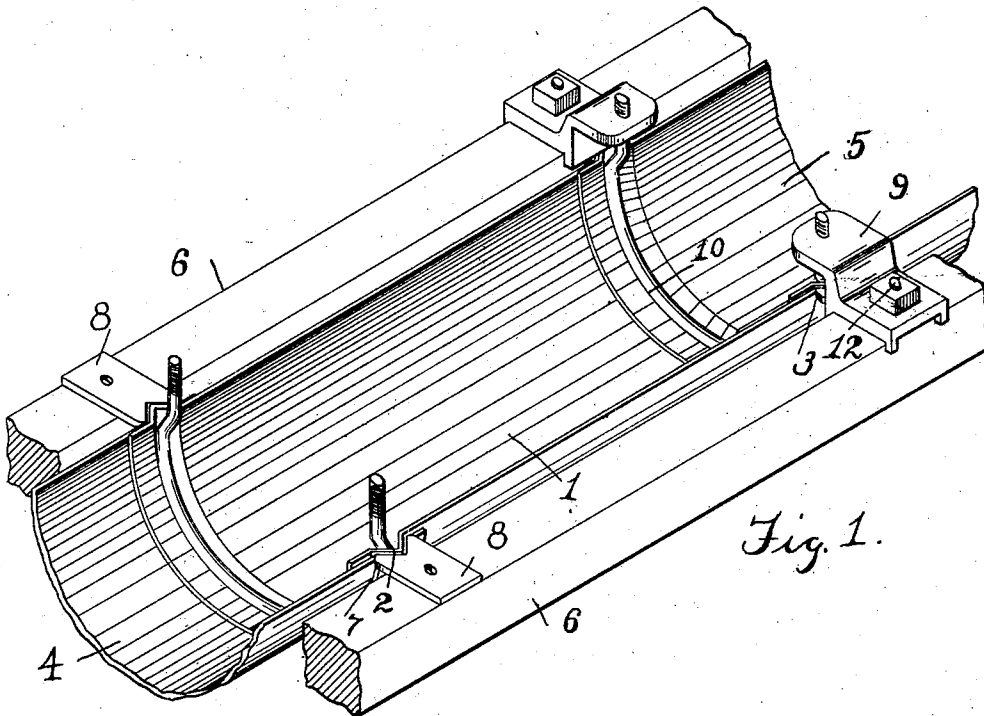


Fig. 1.

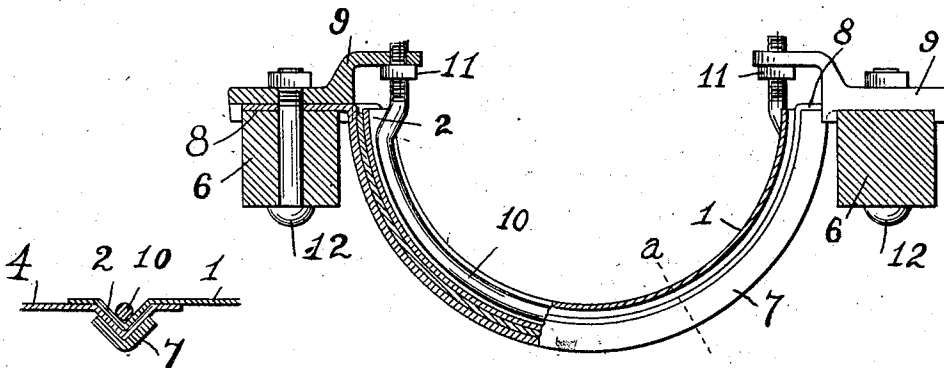


Fig. 2.

Witnesses

Victor E. Jullien
G. S. Harwitz

Inventor
William M. Reynolds
by James W. See
Attorney

UNITED STATES PATENT OFFICE.

WILLIAM M. REYNOLDS, OF MIDDLETOWN, OHIO, ASSIGNOR TO AMERICAN ROLLING
MILL COMPANY, OF MIDDLETOWN, OHIO.

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To all whom it may concern:

Be it known that I, WILLIAM M. REYNOLDS, a citizen of the United States, residing at Middletown, Butler county, Ohio, have
5 invented certain new and useful Improvements in Flumes, of which the following is a specification.

This invention, pertaining to improvements in flumes, will be readily understood
10 from the following description taken in connection with the accompanying drawing in which:—

Figure 1 is a perspective view of a portion of a flume exemplifying my present invention: Fig. 2, a vertical transverse section
15 of the same: and Fig. 3, a longitudinal section of one of the joints in the plane of line *a* in Fig. 2.

In the drawing:—1, indicates one of the
20 sections of the flume, the same being in the form of a semicircular metallic gutter: 2, a circumferentially extending crimp near one end of the section, this crimp forming an outwardly projecting bead and a corresponding inner recess, the crimp being best
25 of V-shape in cross-section: 3, a similar crimp near the other end of the section, the sections all being alike in having a crimp at each end: 4, a flume-section joining the section 1, the bead of section 1 being seated in the recess of section 4: 5, a flume-section
30 similarly joining the other end of flume-section 1: 6, supports at the sides of the flume at each joint, these supports taking, preferably, the form of suitably sustained
35 continuous longitudinal timbers: 7, metallic saddles disposed below each joint in the flume, these saddles being crimped in cross-section to engage the outside beads at the
40 joints: 8, ears projecting outwardly from the extremities of the saddles and resting on the supports 6: 9, clips secured to the tops of each support at each joint, these clips having portions projecting inwardly over
45 the upper edges of the flume: 10, a curved rod, preferably circular in cross-section, lying within the inner recess at each joint in the flume, each rod extending entirely around within the semicircle of the flume
50 and projecting above its edges and through the clips 9: 11, nuts upon the threaded ends of the rods 10 their upper surfaces forming shoulders engaging below the clips 9: and 12, bolts firmly securing ears 8 and clips 9
55 to the supports 6.

The saddles 7 having been placed in proper position on the supports 6, serve as cross-stays between the supports and also serve as saddles to receive and sustain the flume. The flume-sections, with their joint-crimps
60 properly inter-membering, are laid upon the saddles with the outer beads of the flume inter-membering with the recesses of the saddles. Under some circumstances this might be sufficient, but where particularly
65 tight joints are desired they can be secured by means of the rods 10. These rods having been placed in the recesses of the joints, and the clips 9 having been secured to the supports 6, nuts 11 may be employed in forcing
70 the rods downwardly, whereby the two joint-members of the flume become pressed tightly together between the rods and the saddles. The rods may be forced to their work either by turning the nuts, as just noted, or by
75 drawing the clips down by means of bolts 12, the nuts in the latter case acting as mere upwardly presenting shoulders on the rods to engage under the clips.

I claim:—

1. A flume comprising, supports at the
80 sides of the flume, a saddle disposed at each joint in the flume and having its ends connected with said supports, and a metallic gutter resting in said saddles, the saddles
85 being crimped in cross-section, and the gutter being composed of sections provided near their ends with inter-membering crimps, the exterior members of the crimps engaging within the saddles, combined substantially
90 as set forth.

2. A flume comprising, longitudinal timbers disposed at the sides of the flume and forming the supports therefor, a saddle disposed at each joint in the flume and having
95 its ends connected with said timbers, and a metallic gutter resting in said saddles, the saddles being crimped in cross-section, and the gutter being composed of sections provided near their ends with inter-membering crimps, the exterior members of the crimps engaging within the saddles, combined substantially as set forth.

3. A flume comprising, supports at the
105 sides of the flume, a saddle disposed at each joint in the flume and having its ends connected with said supports, a metallic gutter resting in said saddles, the saddles being crimped in cross-section, and the gutter being composed of sections provided near their
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ends with inter-membering crimps, the exterior members of the crimps engaging within the saddles, curved rods lying within the inner crimps of the joints of the gutter and having their ends projecting above the side edges of the gutter, upwardly presenting shoulders at the ends of the rods, and clips secured to said supports over the supported ends of the saddles and having inward projections engaging above said shoulders, combined substantially as set forth.

4. A flume comprising, supports at the sides of the flume, a saddle disposed at each joint in the flume and having its ends connected with said supports, a metallic gutter resting in said saddles, the saddles being crimped in cross-section, and the gutter being composed of sections provided near their ends with inter-membering crimps, the exterior members of the crimps engaging within the saddles, curved rods lying within the inner crimps of the joints of the gutter and having their ends projecting above the side edges of the gutter, nuts threaded on the ends of the rods, and clips secured to said supports over the supported ends of the saddles and having inward projections engaging above said nuts, combined substantially as set forth.

5. A flume comprising, supports at the sides of the flume, saddles disposed at each joint in the flume and having their ends rigidly connected with said supports, a metallic gutter formed of sections having overlapping ends resting in said saddles, a curved rod disposed within the gutter at each joint and over the saddles, and means carried by the supports and engaging the ends of the rods and serving to force the rods downwardly toward the saddles, combined substantially as set forth.

6. A flume comprising, saddles having outwardly projecting ends, a gutter composed of metallic sections having their ends overlapping and resting in said saddles, curved rods extending around within the gutter at each joint, clips overlying the outwardly projecting ends of the saddles and engaging the upper edges of the curved rods, bolts serving to draw the clips and the ends of the saddles toward each other and to force the curved rods downwardly, and supports engaging under the outer ends of the saddles, combined substantially as set forth.

WILLIAM M. REYNOLDS.

Witnesses:

OLAF HELMER,
ROY FREEZE.