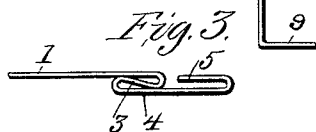
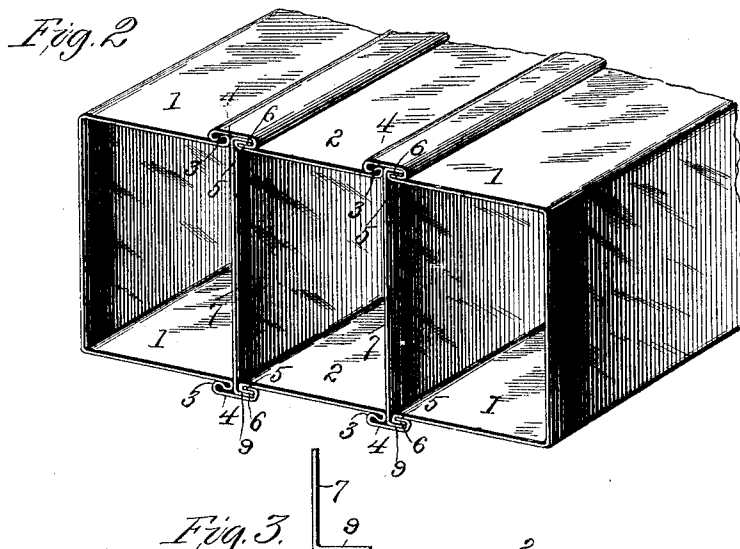
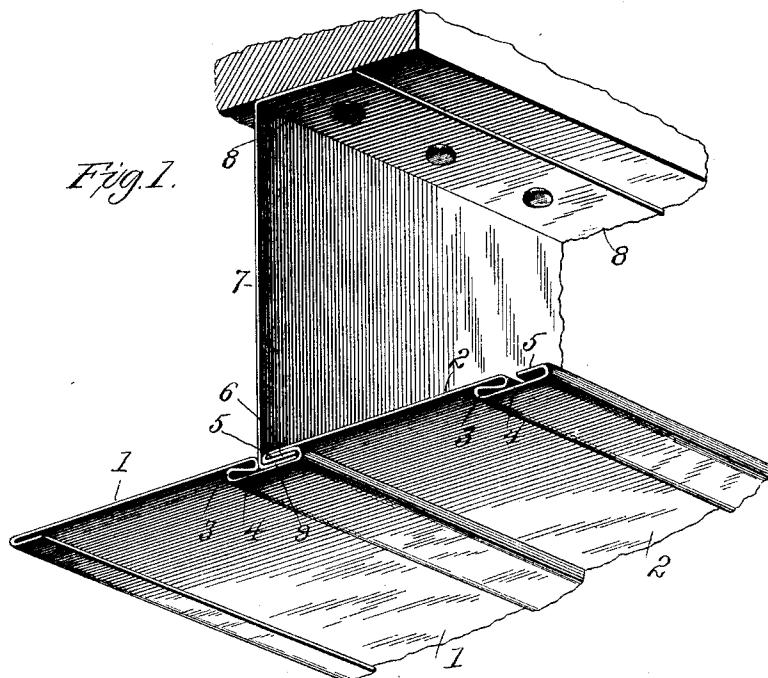


(No Model.)

G. M. GROSS.
SHEET METAL SEAM OR JOINT.

No. 586,658.

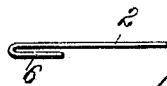
Patented July 20, 1897.



Attest:

Wm. H. Holmes.

W. H. Holmes.



Inventor:

Geo. M. Gross.

by *Robert Burns*
Atty

UNITED STATES PATENT OFFICE.

GEORGE M. GROSS, OF CHICAGO, ILLINOIS.

SHEET-METAL SEAM OR JOINT.

SPECIFICATION forming part of Letters Patent No. 586,658, dated July 20, 1897.

Application filed November 20, 1896. Serial No. 612,911. (No model.)

To all whom it may concern:

Be it known that I, GEORGE M. GROSS, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented a certain new and useful Improvement in Sheet-Metal Seams or Joints; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming a part of this specification.

The present invention relates to that type of sheet-metal joints or seams used for sheet-metal ceilings, partitioned conduits, and the like, the objects of the present improvement being to provide a simple, cheap, and effective joint or seam for such uses embodying cheapness of manufacture, ease of application, and durability and strength in the erected work, as will hereinafter more fully appear, and be more particularly pointed out in the claims. I attain such objects by the construction and arrangement of parts illustrated in the accompanying drawings, in which—

Figure 1 is a perspective view illustrating the application of the present invention to a sheet-metal ceiling; Fig. 2, a similar view showing its application to a partitioned hot-air or other conduit; Fig. 3, an elevation of the parts of the present joint or seam in a detached condition.

Similar numerals of reference indicate like parts in the different views.

Referring to the drawings, 1 and 2 represent sections of sheet metal to be joined together to form a sheet-metal ceiling, conduit, or other like article. The adjacent edges of any two sheets are bent upon themselves and slipped together to form a seam or joint.

In the present invention the adjacent edge of one sheet 1 is bent upon itself in the form of a flattened serpentine fold 3, the free end or portion 4 of which extends away in a plane parallel but some distance below that of the main sheet 1, the extreme end of such extension 4 being bent upon itself to form an open fold 5, that is also in a plane parallel with the parts 1 and 4. The adjacent end of the other sheet 2 is formed with a single return-

fold 6 of a less open nature than the fold 5 of the sheet 1 and adapted to engage the fold 5, as indicated in Figs. 1 and 2.

7 is a hanger or partition-sheet, as the case may be, one or both edges of which are bent into right-angle bends or flanges 8 and 9.

With the application of the present invention to ceilings and the like the upper flange 8 of the sheet 7 will afford ready means for nailing the same in place upon the ordinary wooden ceiling, joists, &c., while the lower flange 9 forms a part of the seam or joint and takes a position between the fold 6 of the sheet 2 and the extension part 4 of the other sheet 1 to constitute the complete and inter-seam of the present invention, as clearly illustrated in Fig. 1 of the drawings.

In the case of sheet-metal conduits and the like, as illustrated in Fig. 2, both flanges 8 and 9 of the sheet 7 will be substantially counterparts and will form a portion of separate and opposite seams of the conduit, &c.

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

1. A sheet-metal seam or joint, comprising in combination, a sheet of metal formed with a serpentine fold 3, a flat extension 4, in a plane removed from but parallel with the main sheet, and an open return-fold 5, a separate sheet formed with a return-fold 6, and a locking-strip 9, fitting between the fold 6 and extension 4, substantially as set forth.

2. A sheet-metal seam or joint, comprising in combination, a sheet of metal formed with a serpentine fold 3, a flat extension 4, in a plane removed from but parallel with the main sheet, and an open return-fold, a separate sheet formed with a return-fold 6, and a sheet formed with a right-angle bend or flange 9, the parts fitting together to form a seam, substantially as herein described.

In testimony whereof witness my hand this 12th day of November, 1896.

GEO. M. GROSS.

In presence of—

ROBERT BURNS,
M. H. HOLMES.