

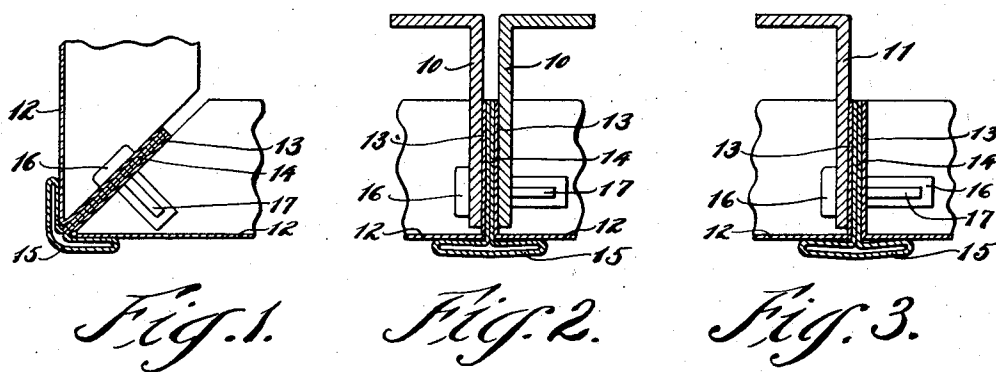
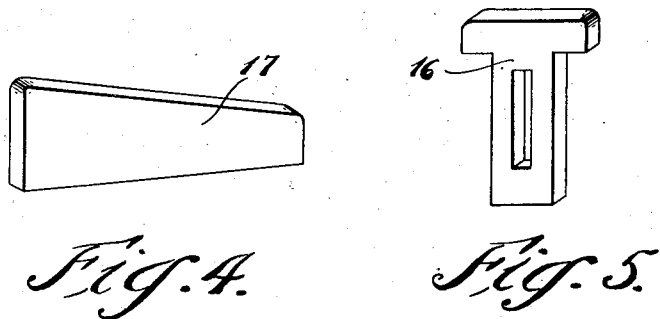
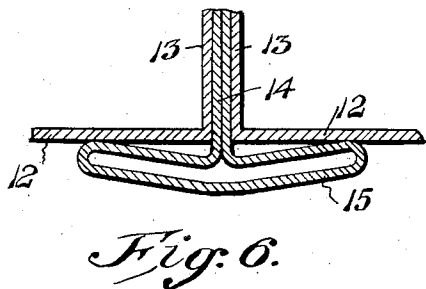
Dec. 15, 1925.

1,565,309

S. S. DAYKIN ET AL

VERTICAL JOINT FOR WALL SHEETS

Filed Feb. 27, 1920



Inventors
S. S. Daykin
H. O. Davidson
By Hull Smith Brock & West
Attys.

Patented Dec. 15, 1925.

1,565,309

UNITED STATES PATENT OFFICE.

SPENSLEY S. DAYKIN AND HARRY O. DAVIDSON, OF CLEVELAND, OHIO, ASSIGNORS
TO THE HYDRAULIC PRESSED STEEL COMPANY, OF CLEVELAND, OHIO, A COR-
PORATION OF OHIO.

VERTICAL JOINT FOR WALL SHEETS.

Application filed February 27, 1920. Serial No. 361,835.

To all whom it may concern:

Be it known that we, SPENSLEY S. DAYKIN and HARRY O. DAVIDSON, citizens of the United States, residing at Cleveland, in the county of Cuyahoga and State of Ohio, have invented a certain new and useful Improvement in Vertical Joints for Wall Sheets, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings.

This invention relates generally to metal buildings and more particularly to a novel form of joint between the vertical metal wall plates attached to the frame work of the building.

One object of the invention is to provide an efficient means for connecting the sheet metal plates to the metallic frame work of the building, said connecting means being of such a nature that the several parts can be quickly and easily assembled and disassembled when desired; and another object of the invention is to provide a novel form of sealing strip which is locked in with the sheet metal plates and constitutes a part of the joint of said plate.

With these objects in view the invention consists in the novel features of construction, and in the manner of combining or arranging them, all of which will be fully described hereinafter and pointed out in the claims. In the drawings forming a part of this specification Fig. 1 is a transverse sectional view showing a corner joint; Fig. 2 is a detail sectional view of the joint used in connection with a double column; Fig. 3 is a similar view showing a single column; Fig. 4 is a detail perspective view of the locking wedge; Fig. 5 is a detail perspective view showing the T bolt, and Fig. 6 is an enlarged detail sectional view showing an exaggerated angle at which the sealing strip is bent in relation to the side wall plates.

Referring to the drawings 10—10 indicate the angle-iron members of the double column and 11 the angle-iron member of the single column.

The sheet metal side wall plates 12 have side flanges 13 and these flanges are extended into parallel relation between the double column members 10, or alongside the single column member 11, and between the flanges 13—13 is inserted the body portion 14 of the sealing strip, the head 15 of said strip strad-

dling the joint and providing a seal at the front of the building.

The sealing strip is formed from a single piece of sheet metal which is bent upon itself to provide the head and body portions both of which are double thickness as shown and in practice we prefer to arrange the oppositely disposed portions of the head at slight acute angles to the body portion as shown in Fig. 6 and thereby throw the outer edges of the head into close contact with the adjacent portions of the side wall plates when all of the parts are drawn tightly together by means of the slotted T bolts 16 and wedges 17, the bolts being passed through openings produced in the plate flanges, columns and body portions of the sealing strips, and then the wedges are driven through the slots in the bolts and all of the parts are bound tightly together.

In the corner joint the side wall plates are bent back at acute angles at their adjacent ends, so that they can be brought into parallel relation at the center of the joint, and the head of the sealing strip is shaped to embrace the corner formed by the juncture of the two wall plates, and the locking bolt and wedges are positioned and act exactly the same as previously described.

It will thus be seen that we provide an exceedingly simple and efficient joint for connecting the side wall plates of a metallic building to the metallic frame portions thereof and it will also be noted that, by the employment of the sealing strips constructed as herein shown and described and connected by the same means as the side wall plates; the meeting edges of said side wall plates are sealed over and protected against the weather inasmuch as the peculiar formation of the sealing strip produces in connection with the other operative parts a tight connection between the extreme edges of the strip and the adjacent portions of the side wall plates.

Having thus described our invention, what we claim is:—

1. The combination with a column comprising a pair of flanged uprights, of flanged wall plates having their contiguous flanges arranged between the flanged uprights, a sealing strip interposed between said flanges, a slotted bolt passing through said flanges and strip and a wedge member passing

through said bolt and bearing against one of said members to hold all of them firmly together.

2. The combination with a flanged column, 5 of the flanged wall plates, a sealing strip T shape in cross section, the body of said strip being interposed between the flanges and the head thereof extending across the contiguous edges of two adjacent plates and means for 10 connecting said column plate flanges and sealing strip together.

3. In a joint for sheet metal wall plates, the combination with a pair of flanged plates of a sealing strip formed of sheet metal and

comprising a double portion adapted to fit 15 between the flanges of the wall strip and oppositely disposed double portions adapted to engage the outer faces of the wall plates. a slotted bolt passing through the flanges of the wall plates and the first named double 20 portion of the sealing strip, and a wedge passing through the slotted bolt and adapted to combine the parts together.

In testimony whereof, we hereunto affix our signatures.

SPENSLEY S. DAYKIN.
HARRY O. DAVIDSON.