

(No Model.)

L. L. SAGENDORPH.
SHEET METAL LOCK JOINT.

No. 425,002.

Patented Apr. 8, 1890.

Fig. 1.



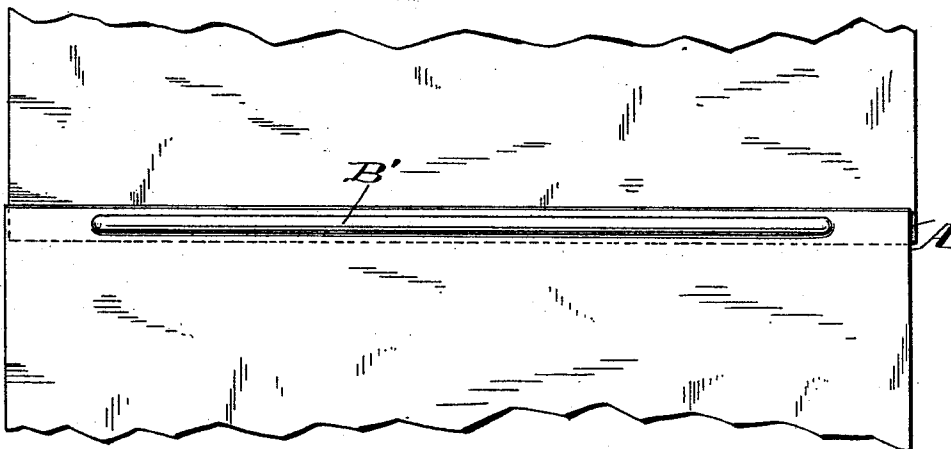
Fig. 2.



Fig. 3.



Fig. 4.



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UNITED STATES PATENT OFFICE.

LONGLEY LEWIS SAGENDORPH, OF CINCINNATI, OHIO, ASSIGNOR OF ONE-HALF TO HARLAN P. LLOYD, OF SAME PLACE.

SHEET-METAL LOCK-JOINT.

SPECIFICATION forming part of Letters Patent No. 425,002, dated April 8, 1890.

Application filed September 20, 1888. Serial No. 285,884. (No model.)

To all whom it may concern:

Be it known that I, LONGLEY LEWIS SAGENDORPH, a citizen of the United States, residing at Cincinnati, Hamilton county, State of Ohio, have invented certain Improvements in Sheet-Metal Lock-Joints, of which the following is a specification, reference being had to the accompanying drawings.

The object of my invention is to provide a flat lock-joint for the meeting ends of roofing-sheets and in such a manner as to permit said sheets to be compactly rolled without danger of separation and also afford a watertight joint, thus dispensing with soldering same, as will more fully hereinafter appear.

Heretofore roofing-sheets have been joined by the ordinary hooked joint consisting of the two interlocking flanges, as shown in Fig. 2, the flanges being pressed together against the meeting sheets. When joined in this manner, the sheets are liable to and often do become separated from handling and rolling. Furthermore, the joint thus formed must be soldered after being put to place on the roof, which is quite an expense, which disadvantages are overcome by the use of my invention.

In the accompanying drawings, Figure 1 is a side view of the meeting ends of two sheets of metal having the interlocking flanges bent ready to be hooked together, and Fig. 2 is a similar view showing the flanges hooked together ready to become locked. Fig. 3 represents the lock-joint complete. Fig. 4 is a top view of the end portions of two sheets joined with my improved lock-joint.

My invention consists in providing the meeting ends of the sheets to be joined with the interlocking flanges A, as shown in Fig. 1, which flanges are hooked together, as shown in Fig. 2. I now compress said flanges between the sheets with any suitable device and form an elongated beaded groove B in

said meeting ends of the sheets and flanges for the greater width of the sheet, leaving space enough at each side to form a standing-seam cap. The sheets at each side of the joint thus formed are bent in opposite angles, as shown at *a*, thus bringing the sheets on the same plane.

The advantages of my invention are—

First, the sheets of metal thus locked cannot become disengaged when rolled for shipment or in otherwise handling them.

Second, the joint thus formed is watertight, thus dispensing with the extra expense of soldering, which is quite an advantage.

Third, the sheets thus joined may be cut at any desired length irrespective of the joints and fitted on the roof, as the sheets are all on the same plane.

Fourth, the flat joint thus formed does not interfere in any manner with the rolling or handling of the sheets, and from fifty to one-hundred feet of eight-foot sheets may be advantageously rolled in one compact body for shipment.

I am aware that it is not new, broadly, to form an interlocking joint, as shown in Fig. 2. I am also aware that it is not new to form a depression in the ridge-cap over a standing seam to prevent said cap from slipping from place; but

What I claim as new and of my invention is—

In metallic roofing, the roofing-plates having their meeting edges united by the ordinary lock or stove-pipe joint, the interlocking edges and flanges being made fast by indenting the folded or interlocked portions, substantially as set forth.

LONGLEY LEWIS SAGENDORPH.

Witnesses:

HENRY WOOST,
E. S. HAVENS.