No. 735,489. PATENTED AUG. 4, 1903.

L. P. FRIESTEDT.

SHEET PILING.

APPLICATION FILED MAY 21, 1903.

NO MODEL.

Fig. 1.

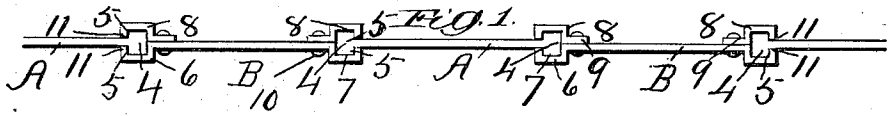


Fig. 2.

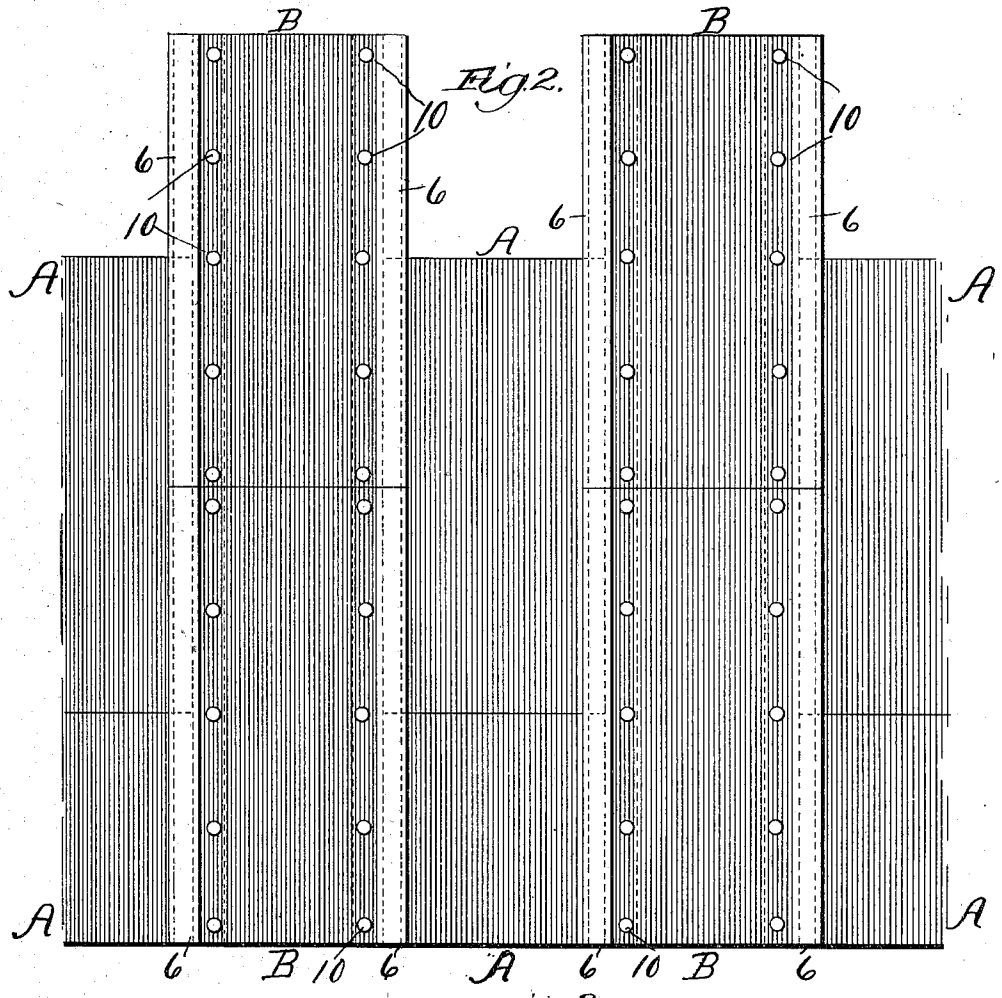
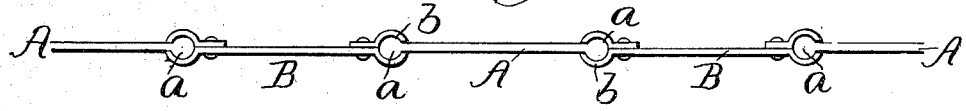


Fig. 3.



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No. 735,489. Patented August 4, 1903.

UNITED STATES PATENT OFFICE.

LUTHER P. FRIESTEDT, OF CHICAGO, ILLINOIS.

SHEET-PILING.

SPECIFICATION forming part of Letters Patent No. 735,489, dated August 4, 1903.

Application filed May 21, 1903. Serial No. 158,111. (No model.)

To all whom it may concern:

Be it known that I, LUTHER P. FRIESTEDT, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Sheet-Piling; and I do hereby 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.

This invention relates to improvements in the class of sheet-piling built up of rolled-metal beam-sections assembled edgewise in an interlocked engagement to form a single wall at all points and to be employed in constructing sea-walls, docks, bridge-pier foundations, mine-sheeting, and other work of either a permanent or temporary character.

The object is to provide an improved interlocking arrangement for the edgewise engagement of the beam-sections as they are assembled in the work.

In the drawings, Figure 1 is a plan of a wall structure embodying the improved features. Fig. 2 is a side elevation, and Fig. 3 is a modification.

The beam-sections A are provided with rib or bar edges, the web of the beams bisecting the same so, that the thickened part will be raised equally on each side thereof. The ribs 4, formed on the respective edges of sections A, are approximately square in cross-section and provide a locking-shoulder 5 on each side.

The alternately-joining beam-sections B are provided on each edge with an integral jaw 6, formed with a groove or recess 7 of a shape to fit over one side of the ribs 4, the hook edge of the jaw 6 having a locking engagement with the shoulder 5 on that side of the beam-section. A companion jaw 8 is located on the opposite side of the beam in forming a double-jaw connection. The jaw members 8 are separate parts and are provided with a riveting-flange 9, through which the rivets 10 are inserted in rigidly securing the same to the beam-sections B. The hook edge 11 of the jaw members 8 engage the shoulders 5 on the side of the wall opposite to that of the jaw members 6 in forming a complete interlocking engagement of the beam-sections.

It will be understood that the interlocking rib and jaw edges run the full length of the beam-sections and also provide the usual guide features when assembling the beams in the operation of driving.

In the modification, Fig. 3, the rib edges *a* of the sections A are cylindrical in cross-section and the engaging jaw edges *b* on sections B of a corresponding contour to properly fit the same in assembling the sections.

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

1. In metal sheet-piling, a beam-section provided with thickened rib edges, and a joining beam-section provided with jaw members along the respective edges thereof and adapted to engage said rib edges in locking the sections together as they are assembled in a wall structure, substantially as set forth.

2. In metal sheet-piling, a beam-section having ribs formed on the respective edges thereof that are bisected by the web part and a joining beam-section provided with jaw members extending around on each side of said ribs in an interlocking engagement, substantially as set forth.

3. In metal sheet-piling, a beam-section provided with ribs on its respective edges that are bisected by the web part and have shoulders formed along the inner sides thereof, and a joining beam-section provided with fixed jaw members having hook edges engaging said shoulders in locking the beam-sections together, substantially as set forth.

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

LUTHER P. FRIESTEDT.

Witnesses:

J. B. DONALSON,

L. B. COUPLAND.