

No. 888,085.

PATENTED MAY 19, 1908.

J. J. HAROLD.
METAL PILING.

APPLICATION FILED SEPT. 9, 1906.

2 SHEETS—SHEET 1.

Fig. 1.

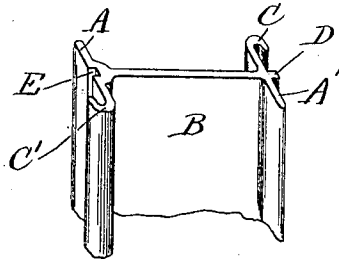
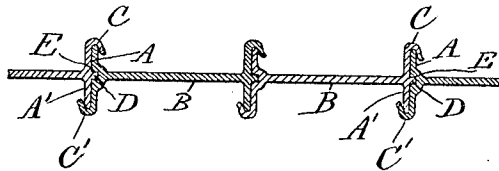


Fig. 2.

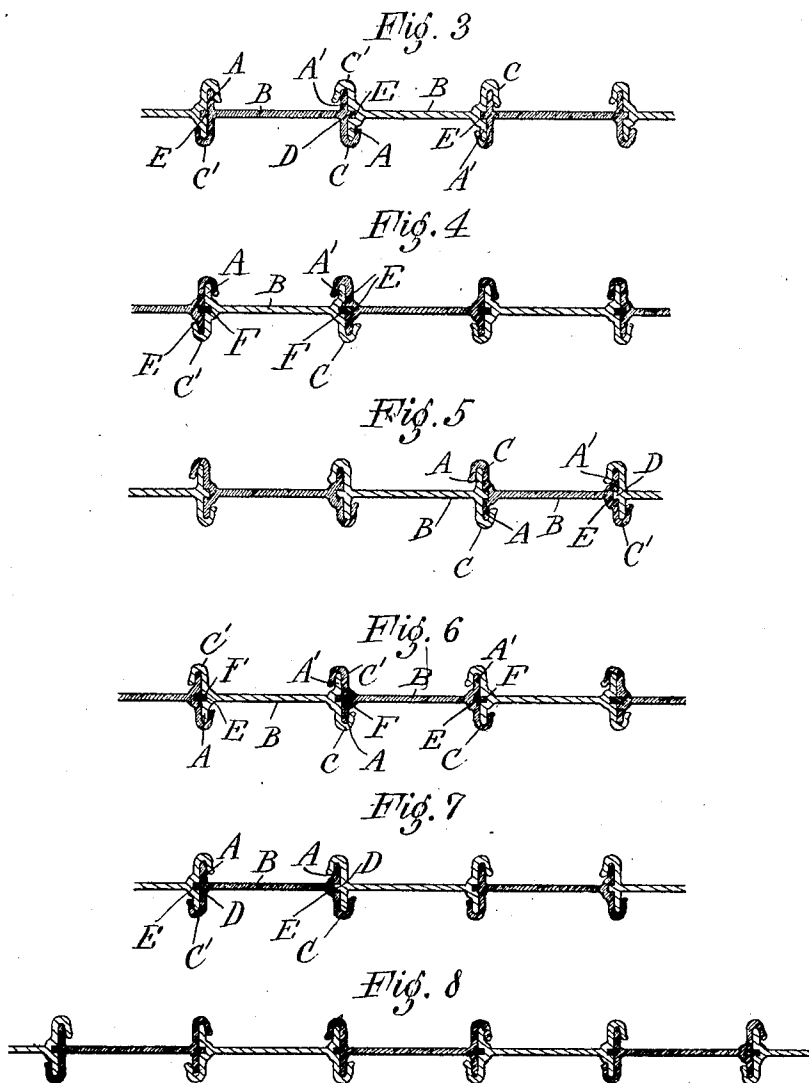
Witnesses
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2 SHEETS—SHEET 2.



Witnesses
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UNITED STATES PATENT OFFICE.

JAMES J. HAROLD, OF JERSEY CITY, NEW JERSEY, ASSIGNOR, BY MESNE ASSIGNMENTS,
TO EDWARD A. BERN, OF CHICAGO, ILLINOIS.

METAL PILING.

No. 888,085.

Specification of Letters Patent.

Patented May 19, 1908.

Application filed September 9, 1905. Serial No. 277,671.

To all whom it may concern:

Be it known that I, JAMES J. HAROLD, a citizen of the United States of America, residing at Jersey City, in the county of Hudson and State of New Jersey, have invented certain new and useful Improvements in Metal Piling, of which the following is a specification, reference being had therein to the accompanying drawing.

My invention relates to improvements in metallic piling as used in subway, foundation and irrigation work, dams, mine-shafts, caissons, sea-walls, locks, coffer-dams, retaining-walls, and other structures and comprises flanged beams of interlocking shapes to be hereinafter more fully described.

Referring to the accompanying drawings, Figure 1 shows a run of my piling comprising interlocking beams provided with a ridge on one side and a recess on the other, and Fig. 2 is a section in perspective of one of the beams of the same. Fig. 3 shows beams provided with a recess in each side interlocking with beams provided with a ridge on each side, Fig. 4 shows beams provided with a recess in each side adapted to receive interlocking strips, Fig. 5 is a modification of Fig. 3 showing curved flanges on opposite sides of each beam, Fig. 6 is a modification of Fig. 4 showing curved flanges on opposite sides of each beam, Fig. 7 is a modification of Fig. 1 showing curved flanges on the same side of each beam, and Fig. 8 is a run of the piling comprising a combination of the beams shown in the first seven figures.

My special shaped beam is formed with straight and curved flanges at the sides and edges and is provided with ridges and recesses, or recesses and interlocking strips for securely joining the beams together.

A—A' are the straight flanges, B the web, C—C' the curved flanges, D the ridges, and E the recesses of the beams. F are the interlocking strips.

The straight flanges are substantially at right angles to the web of the beam and the curved flanges terminate in a bend or hook turned outwardly therefrom. The ridges or projections or the interlocking strips engage the recesses of adjoining beams and the combination is free to slide within each other and are driven into place in the usual manner.

Modifications may be made without departing from the spirit of my invention.

Having described my invention, what I claim as new and desire to secure by Letters Patent, is:

In piling, a member comprising a web portion, a transverse flange at each end thereof, one end of each flange terminating in a hook, the opposite end of each flange remaining normal to engage the recess of the hook of an adjacent section, and ridges and recesses for keying said members together.

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

JAMES J. HAROLD.

Witnesses:

MARGARET ERTLE,
THOMAS A. HILL.