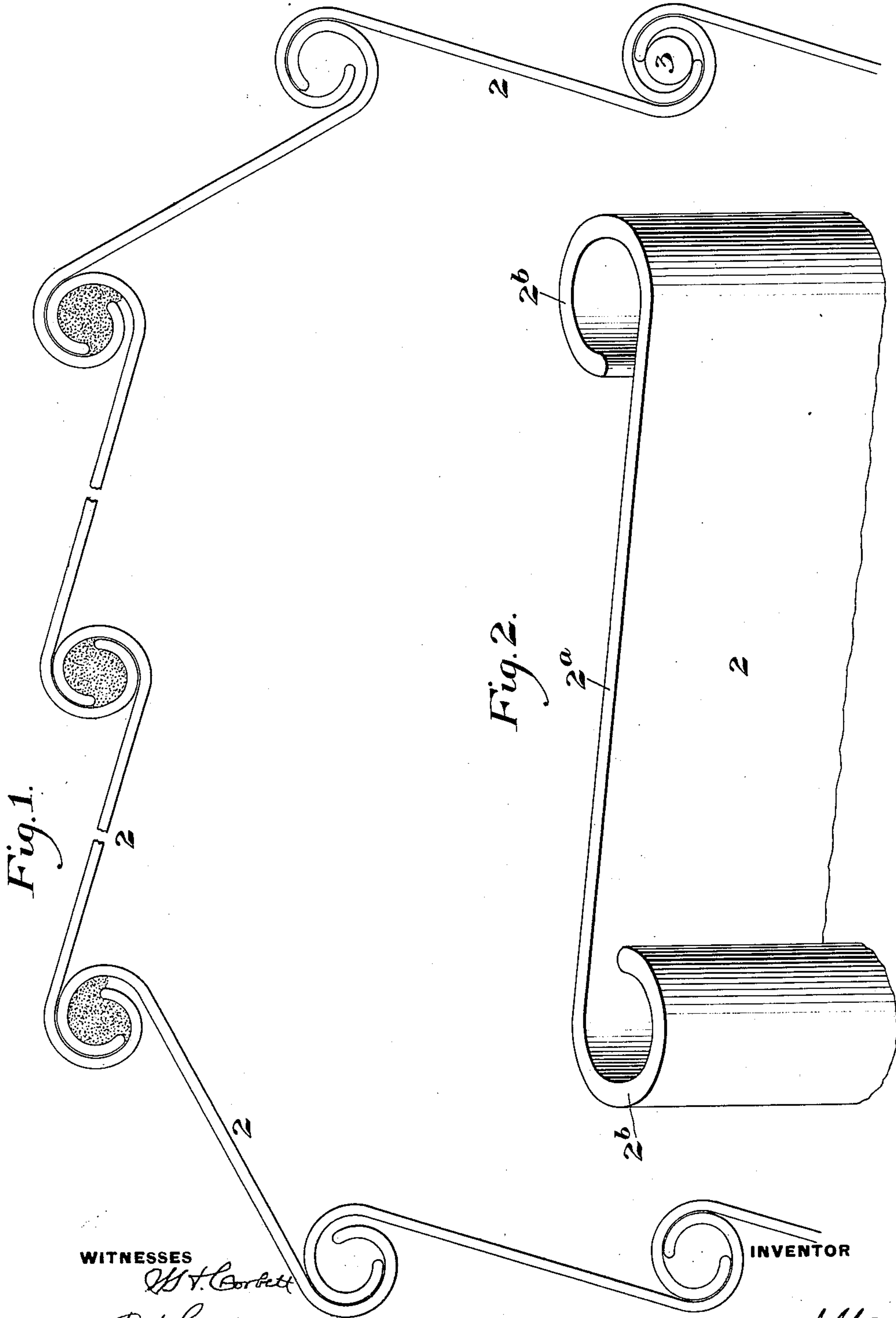


No. 824,513.

PATENTED JUNE 26, 1906.

R. H. STEVENS.  
METAL SHEET PILING.  
APPLICATION FILED DEC. 4, 1905.



WITNESSES

*W. T. Corbett*  
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INVENTOR

*Richard H. Stevens*

# UNITED STATES PATENT OFFICE.

RICHARD H. STEVENS, OF MUNHALL, PENNSYLVANIA.

## METAL SHEET-PILING.

No. 824,513.

Specification of Letters Patent.

Patented June 26, 1906.

Application filed December 4, 1905. Serial No. 290,057.

*To all whom it may concern:*

Be it known that I, RICHARD H. STEVENS, of Munhall, Allegheny county, Pennsylvania, have invented a new and useful Improvement in Metal Sheet-Piling, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, in which—

Figure 1 is a plan view of a piling structure, showing the manner in which interlocking sheet-piling constructed according to my invention is assembled to form an inclosure and also showing the manner in which the corners are turned in a rectangular inclosure.

Fig. 2 is a perspective view, on a larger scale, of the end of a single pile as it is formed in accordance with my invention.

My invention relates to sheet-piling constructed of metal, and more particularly to metal sheet-piling in which the members interlock with one another to form an inclosure.

The object of my invention is to provide an interlocking shape which can be easily and cheaply manufactured from ordinary rolled-metal plates.

Another object of my invention is to provide a pile in which the use of rivets, bolts, and similar securing means is avoided.

In the drawings, 2 represents the interlocking shape, which consists in a web portion 2<sup>a</sup> and reversely-coiled edge portions 2<sup>b</sup>. The edge portions 2<sup>b</sup> are curved so as to form an interlocking connection or joint between the similar curved edge portions 2<sup>b</sup> of the adjoining piles.

When driving the piles, a suitable rod or

bar 3 is preferably driven with the pile in the opening formed between the curved edges of the piles which, after being driven into the ground, may remain in place or may be withdrawn, as is desired. In the use of the piles to form a water-tight inclosure the rods 3 are withdrawn, and the opening left by their removal may be filled with a suitable packing material. The piles may also be driven without employing the rods.

In the manufacture of the piles I preferably take what are known as "universal plates," and by passing through suitable forming means curve or coil the edges of the plates into the shape as shown in the drawings.

The advantages of my invention will be apparent to those skilled in the art. By constructing the piles from a plate great strength and stiffness is secured with a minimum weight of material.

I claim—

1. An interlocking metal sheet-pile having a web and reversely-curved edge portions adapted to interlock with the curved edges of similar piles; substantially as described.

2. In metal sheet-piling a shape having a straight web portion and curved edge portions the edges being separated from the web by grooves; substantially as described.

In testimony whereof I have hereunto set my hand.

RICHARD H. STEVENS.

Witnesses:

W. H. CORBETT,  
R. D. LITTLE.