Fig. 1

Fig. 2

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SHEET-PILING SECTION


This invention relates to metal sheet piling of the kind that is built up of separate pile sections, the edges of which are provided with interlocking means.

My invention consists essentially of a pile section having a channeled web provided at each of its vertical edges with two flanges, one of which is hook shaped and the other arcuate, both of them defining a pocket or groove, the hook and arcuate flanges being reversed on the two edges of the section.

Referring to the drawings, the figures show plan views of two different arrangements of piling involving the use of my section.

Each section consists of a more or less deeply channeled or arched web 1, provided at one of its vertical edges with an arcuate flange 2 and a hook-like flange 3, the two flanges forming a pocket or groove 4. Flanges 2' and 3' are provided on the opposite vertical edge of the section, similar in every respect to flanges 2 and 3, except that they are reversed in position. This difference constitutes the distinguishing feature of my invention.

The sections are interlocked in the regular way by the hook portions of any section being held in the pockets of adjoining sections.

By virtue of the reversed positions of hook and guard flanges, sections may be combined to produce piling having various structural characteristics. For example, piling of the type shown in Fig. 1 has certain structural advantages, well known in the art. To produce piling of this kind, the sections are so assembled that flanges 2 and 3 of one section interlock with 2 and 3 of another, while flanges 2' and 3' interlock with flanges 2' and 3' of the third section. In other words, at any joint between sections like edges of sections are joined to form this type of piling.

When it is desired to assemble the piling shown in Fig. 2, unlike edges are interlocked, an edge having flanges 2 and 3 interlocking with the edge of another section having flanges 2' and 3'.

Furthermore, it is old to make sections having a straight web with the hook and guard flanges reversed at the two edges. But it is new to provide channel webs with the reversing structure as shown.

A distinct utility is obtained from this reversal of structure of the two edges, which is not securable with the ordinary sections, in that both types of piling arrangement, as indicated in the figures, are securable with a single form of section. Obviously, it is a substantial advantage to be able to build either of these two distinct types of piling walls with but a single form of section.

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

A piling section comprising an intermediate web portion with side web portions extending outwardly at an angle from each edge of the intermediate web portion, and flanges defining a pocket extending from the outer edge portion of each of such side web portions, one flange forming a hook and the other an arcuate guard, the hook and guard being reversed on the two edges.

In testimony whereof I hereunto affix my signature.

ROBERT S. A. DOUGHERTY.