P. SCHIFFLER.

PILE PLANKING OF ROLLED FIGURED IRON.

APPLICATION FILED SEPT. 16, 1912.

1,067,684. Patented July 15, 1913.

Fig. 1

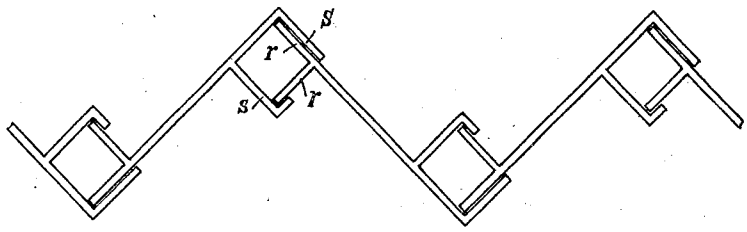


Fig. 2

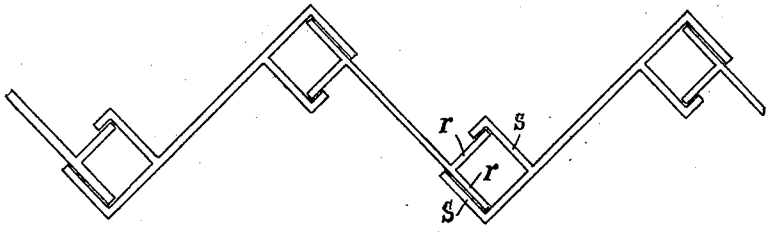
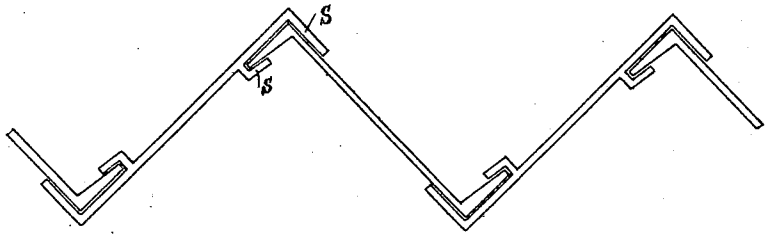


Fig. 3



Witnesses:

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per Peter Schiffler

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UNITED STATES PATENT OFFICE.

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PILE-PLANKING OF ROLLED FIGURED IRON.

1,067,684. Specification of Letters Patent. Patented July 15, 1913.

Application filed September 16, 1912. Serial No. 720,690.

To all whom it may concern:

Be it known that I, PETER SCHIFFLER, engineer, a subject of the King of Prussia, residing at No. 10 Stephanstrasse, Aachen, in the Kingdom of Prussia, Empire of Germany, have invented certain new and useful Improvements in Pile-Planking of Rolled Figured Iron; 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.

The present invention relates to a pile-planking made of rolled iron, which on account of the scalariform arrangement of the planks proves, in spite of a small quantity of iron being used, of the greatest efficiency against flexure and so enables a compulsory, tight guiding of the planks. This is attained in such a way as to provide the stem-ends of the planks on opposite sides with a pair of noses which are rolled to them.

Figure 1 of the annexed drawing represents a top view of such a pile-planking, in which the wall is made of rolled figured iron the sections of which are exactly like each other, Fig. 2 is a top view of a pile-planking formed of iron of two different sections, Fig. 3 shows a representation-form with one plank of normal Z section.

The object of the invention consists in that the stem-ends of the rolled iron used in the form according to Figs. 1 and 2 are provided with pairs of clips or noses *s*, *r* being rolled to the stem and arranged on opposite sides of the same. These pairs of noses, a certain number of which have bent edges, form after the combination of the planks, a scalariform pile-planking with hollow spaces which in turn form bipartite quadrilateral tubes, whereby the planks are guided compulsorily, so that actually one plank may be slid into the adjacent one, but prevented from turning around the same. The hollow inner part of these tubes may be filled up in the usual way with stopping or tightening stuff. In the form according to Fig. 3, the same as in Fig. 2, two different sections are necessary. In this case, however, only one iron must be provided with a pair of noses, while the other one consists of a plain normal Z-iron. Then no hollow spaces are obtained, but also here a compulsory guide is at hand.

Having thus described my invention, what I claim is:—

1. In a metal sheet piling comprising detachable planking units, the combination with a series of angularly disposed bars, each bar being provided with interlocking means for holding another bar in angular relation thereto, of sockets carried by one of said bars, said sockets comprising angularly disposed extensions projecting from the planking unit, a shoulder upon one of the said extensions said shoulder being bent inwardly with relation to the extensions, heads carried by one of said bars, and adapted to be inserted in said sockets, said head comprising an angular extension extending from the planking unit and adapted to fit between the angular extension and the shoulder of the socket, whereby to lock the units together.

2. Pile-planking of rolled iron consisting of rolled sections scalariformly slid into one another, said sections having for the purpose of guiding, at their ends on opposite sides pairs of noses rolled to them, said noses being partly provided with bent edges, forming on the uniting of the planks hollow spaces of the shape of bipartite, quadrilateral tubes, said tubes producing the compulsory guiding of the planks.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

PETER SCHIFFLER.

Witnesses:
HENRY CUADFLIEG,
ELISE KOCLBURSH.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."