Nov. 13, 1928. 1,691,848

A. JOHNSON

REVETMENT MAT.

Filed Sept. 10, 1927

Fig. 1.

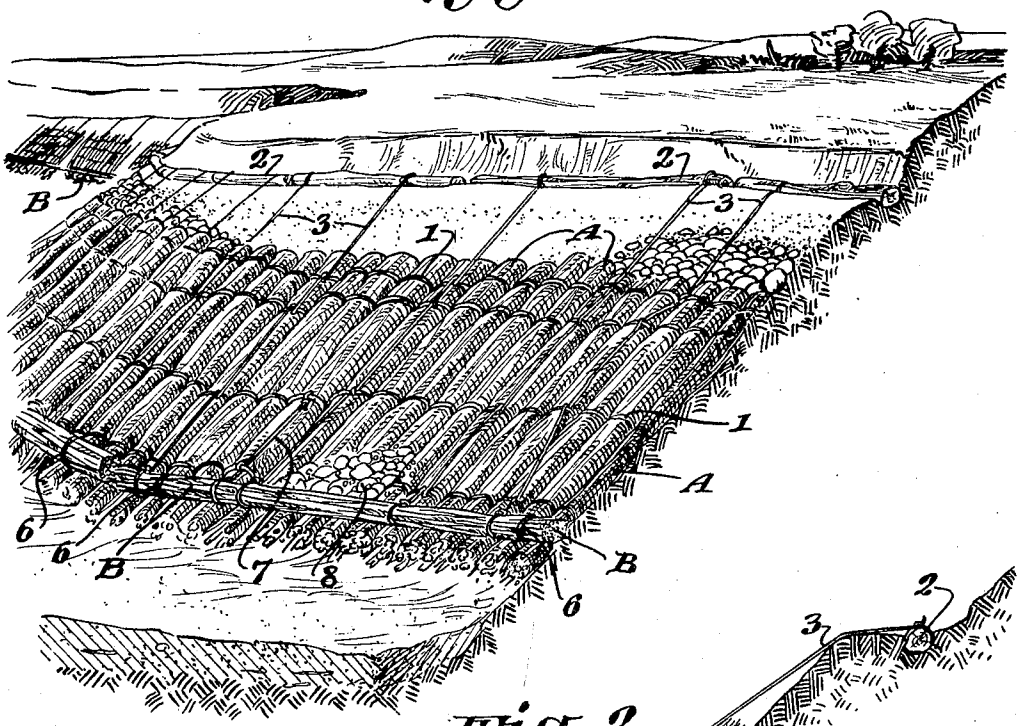


Fig. 2.

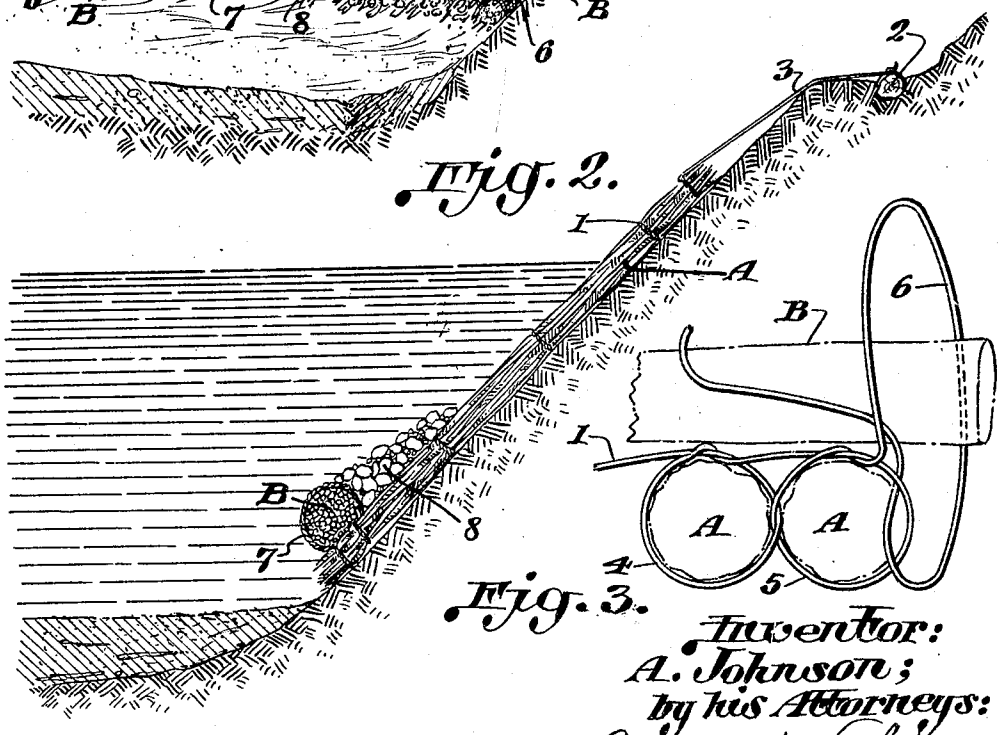


Fig. 3.

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UNITED STATES PATENT OFFICE.

AUGUST JOHNSON, OF NEBRASKA CITY, NEBRASKA.

REVETMENT MAT.

Application filed September 10, 1927. Serial No. 218,708.

The present invention relates to the construction of revetment-mats of the type disclosed in my prior Patent 1,166,050, patented December 28, 1915. It is found that, when using the revetment-mat shown in the patent, the slope of the bank may change from time to time, and, if this becomes too steep, the ballast of sand or stone which is placed upon the surface of the mat will be readily carried away. It is the purpose of this improvement, therefore, to modify the construction of the mat so that such objectionable result cannot occur.

In the drawings:

Figure 1 is a perspective view of a revetment-mat embodying the principles of the present invention.

Figure 2 is a sectional view therethrough.

Figure 3 is a detail showing the manner of construction of the mat.

The mat shown in my prior patent is one used for protecting the banks of rivers, seashores, and so forth and is constructed of bundles or fascines of brush, twigs, or the like, which are bound together in a peculiar manner. In the invention disclosed in said patent, the transverse cables 1 hold the elements of each fascine together and hold the fascines in the form of the mat and adjacent loops interlocking in a manner shown and described in said patent. These fascines A are held together by cables 1, and the whole mat is anchored to a support 2 by means of cables 3, which are preferably fastened to the transverse cables 1 as indicated.

According to the present invention, there is applied one or more transverse fascines near the lower edge of the mat.

As indicated in Figure 3, two adjacent loops 4 and 5 surround fascines A and are interlocked in the manner shown. The next loop 6 is turned at right angles to the loops 4 and 5 and passed over the end of the transverse fascine B. In this manner, the ends of the transverse fascines are attached to the mat by the same cables which are used in the formation of the mat itself. There are also preferably employed additional cables 7 which are suitably tied around the fascines B intermediate their ends, and are then joined to one or more of the transverse cables 1. In this manner, the transverse fascine is easily secured, and becomes a permanent part of the revetment-mat. The ballast 8, such as rock or sand, which is placed on the outer surface of at least a part of the revetment-mat, will be held against displacement by the transverse fascine. It is apparent that, even if the slope of the bank becomes much steeper than it was at the beginning, nevertheless the ballast will be retained in its proper position.

While the invention relates specifically to the particular manner of associating the transverse fascine or fascines with the mat proper, nevertheless, from a broader point of view, the invention may be embodied in constructions which differ therefrom quite widely. It is to be understood, therefore, that the invention is to be regarded as limited only by the scope of the appended claims.

I claim as my invention:

1. A revetment-mat having a plurality of fascines, cables passing around the fascines to secure them together, a fascine transverse to and superposed on the first mentioned fascines adjacent the lower longitudinal edge of the mat to retain ballast, said cables having loops securing the transverse fascine to the first mentioned fascines.

2. A revetment-mat having a plurality of fascines, interlocking cables passing around the fascines in spaced rows to secure the fascines together, a fascine transverse to and superposed on the first mentioned fascines adjacent the lower longitudinal edge of the mat to retain ballast, one of said cables having loops surrounding and securing the transverse fascine to the first mentioned fascines, and additional cables extending from one of said first mentioned cables and connected to the transverse fascine.

In testimony whereof, I have hereunto subscribed my name.

AUGUST JOHNSON.