

No. 749,386.

PATENTED JAN. 12, 1904.

H. F. KELLNER.

FASCINE.

APPLICATION FILED OCT. 19, 1903.

NO MODEL.

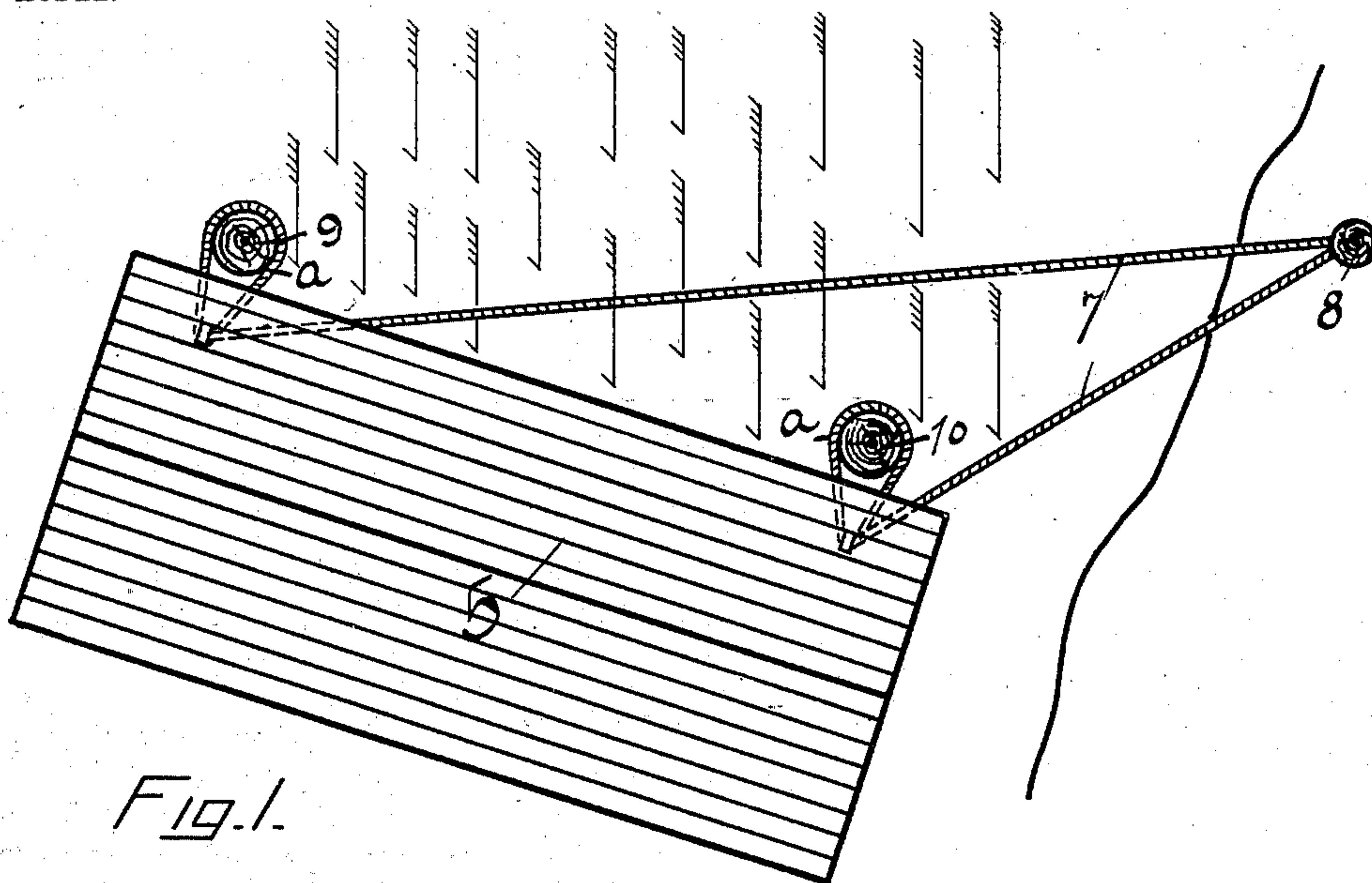


Fig. 1.

Fig. 2.

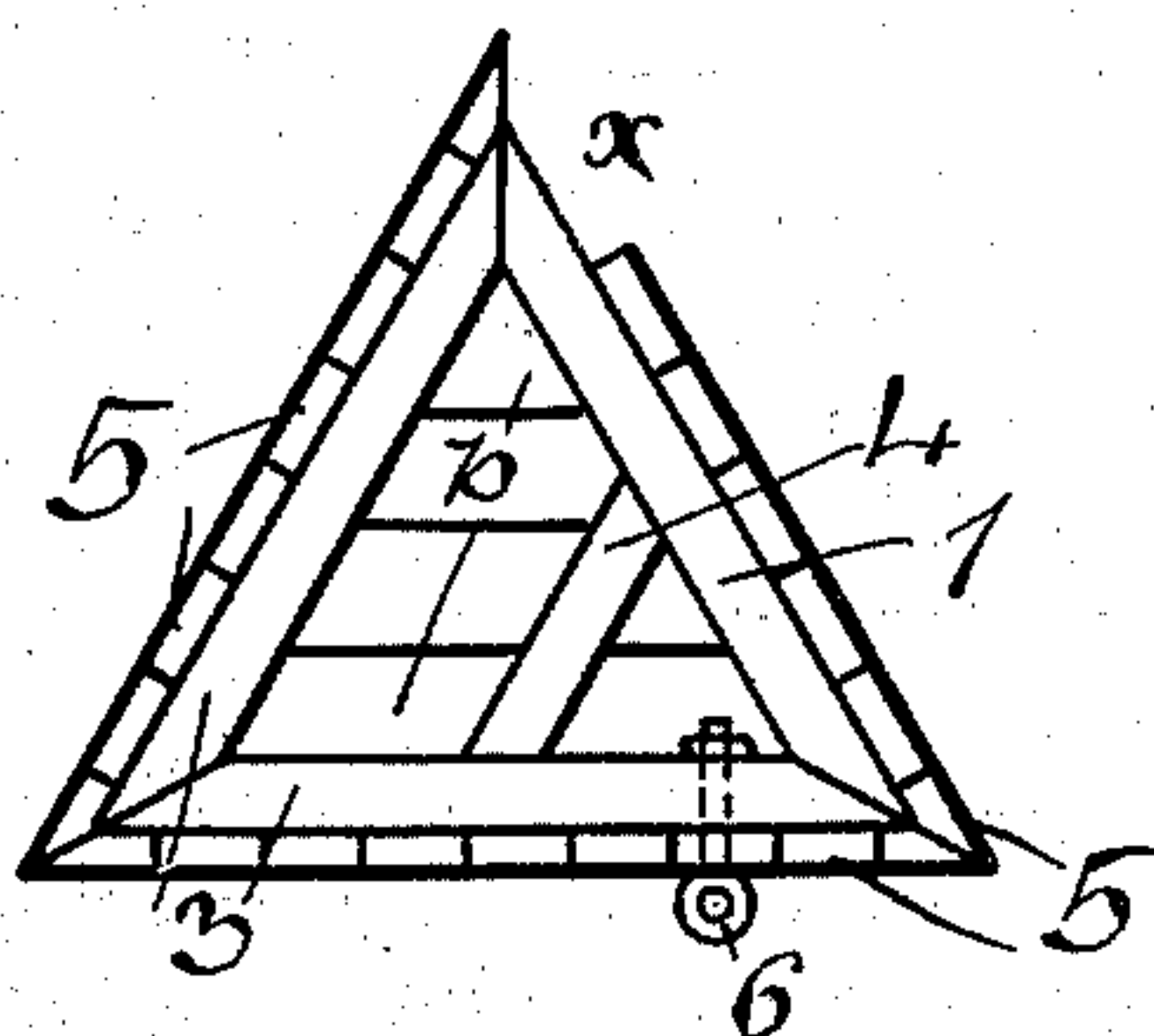
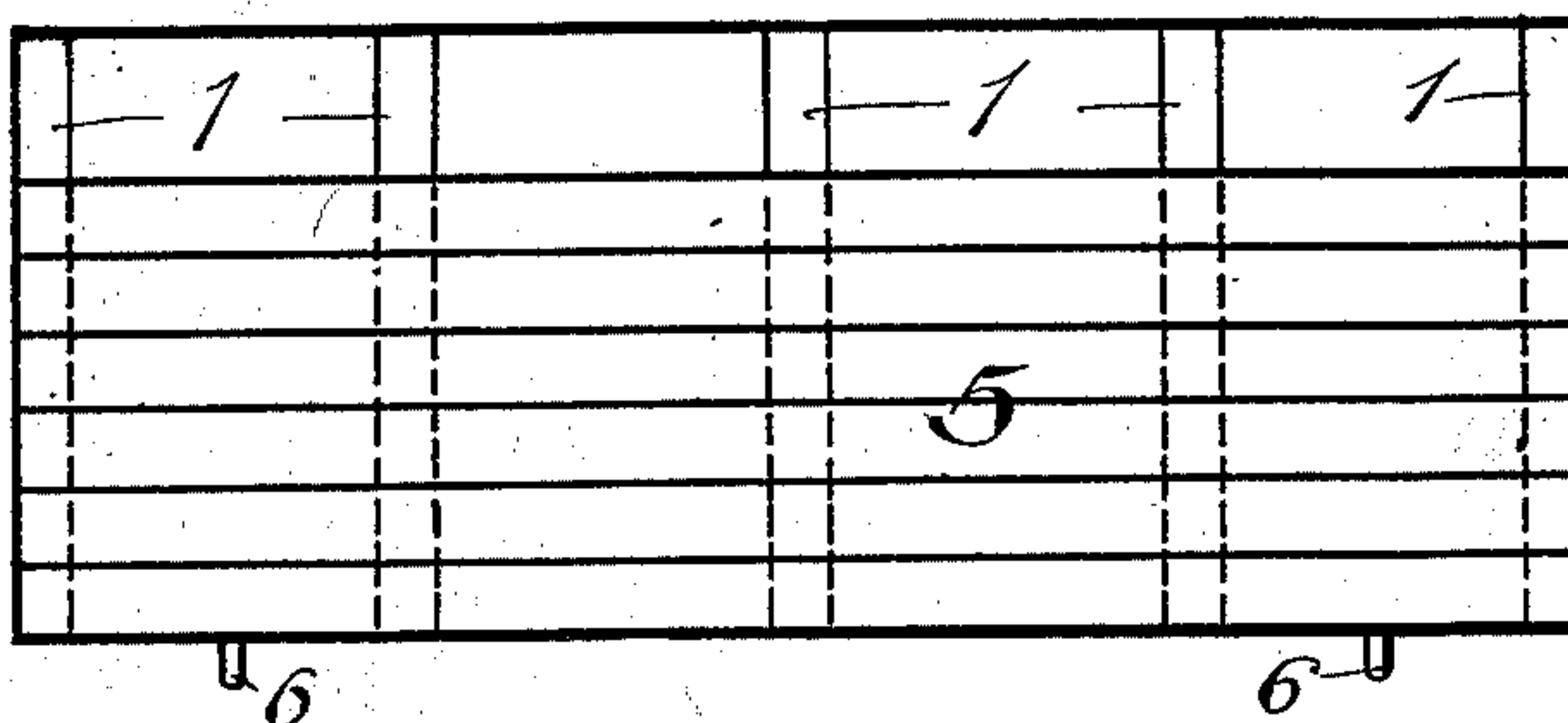


Fig. 3.



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## UNITED STATES PATENT OFFICE.

HENRY F. KELLNER, OF NORTH PLATTE, NEBRASKA.

## FASCINE.

SPECIFICATION forming part of Letters Patent No. 749,386, dated January 12, 1904.

Application filed October 19, 1903. Serial No. 177,657. (No model.)

*To all whom it may concern:*

Be it known that I, HENRY F. KELLNER, residing at North Platte, in the county of Lincoln and State of Nebraska, have invented certain useful Improvements in Fascines; and I do hereby declare that the following is 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, reference being had to the accompanying drawings, which form a part of this specification.

This invention relates to a fascine.

The aim of my invention is to provide a fascine adapted to be made of wood or iron and be so constructed that the same may be filled with sand pumped into the fascine, which then gradually sinks. The fascine is three-cornered in cross-section, so that one fascine will be adapted to snugly pack in between two adjacent fascines to form a solid compact mass. These fascines, further, can be filled with stones, earth, and sand and then can be rolled or tumbled toward the point where they are to be precipitated into the river, or they may be filled upon a scow and be tumbled into the river.

In the accompanying drawings I have shown in Figure 1 a top view of a fascine embodying my invention, disclosing the same as anchored. Fig. 2 shows an end view with one end open of a fascine embodying my invention, while Fig. 3 shows a side view of the fascine.

In carrying out the aim of my invention I construct a housing, three-cornered in cross-section, comprising three similar frame members 1, 2, and 3, as shown in Fig. 2, which are united to make a triangular frame, and a plurality of such frames are used, being united by means of the boards 5, as shown in Figs. 1 and 3. On the side turned toward the current the frame member—as the one marked 1 in Fig. 2, for instance—is strengthened by means of a transverse brace 4, which is secured to the frame member 5.

In securing these fascines I prefer leaving an opening, as shown at  $x$  in Fig. 2, and through that opening pump sand into the fascine, so that the same gradually sinks. Previous to its sinking in order to possibly locate the first fascine I sink two piles, as shown in Fig. 1, (marked 9 and 10,) and by means of cables or strands  $a$ , which are secured to a suitable eyebolt 6, the fascine as it sinks is compelled to lie at the bottom adjacent the piles, which are preferably placed upon the side from which the current comes, as is indicated by means of the arrows  $z$  in Fig. 1. In order to further secure the fascine, the shore cables 7 are used, secured to a suitable pile 8 upon the shore.

As soon as the first fascine is sunk a second one is filled and permitted to gravitate upon the first, where by virtue of the triangular structure the second fascine will snugly pack upon the first, the following fascines being lowered upon those already sunk. In this way a solid mass is formed within the current. By virtue of the triangular shape of my fascine also where one alone is sunk to divert the current the surfaces being inclined offer less resistance to the current, and so are less likely to be swept away.

These fascines are made of any suitable length, and, if desired, the frame and cover could also be of angle and sheet iron.

Having thus described my said invention, what I claim as new, and desire to secure by United States Letters Patent, is—

1. A fascine comprising a plurality of triangular frames, said frames being united by means of a suitable covering, a strengthening member bracing the frame members upon the side turned toward the current, an eyebolt within a number of said frame members adapted to receive a suitable cable, vertical piles, and cables passing round said vertical piles and secured to said eyebolts.

2. A fascine comprising a plurality of triangular frames, one side of each frame being braced by means of a strengthening member, a plurality of said frames being united by means  
5 of a suitable covering to form a triangular housing adapted to be filled with sand earth or stones, eyebolts secured to a plurality of said frames, shore cables extending from said eye-

bolts and suitably secured, all arranged substantially as and for the purpose set forth. 10

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

HENRY F. KELLNER.

Witnesses:

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W. J. JONES.