

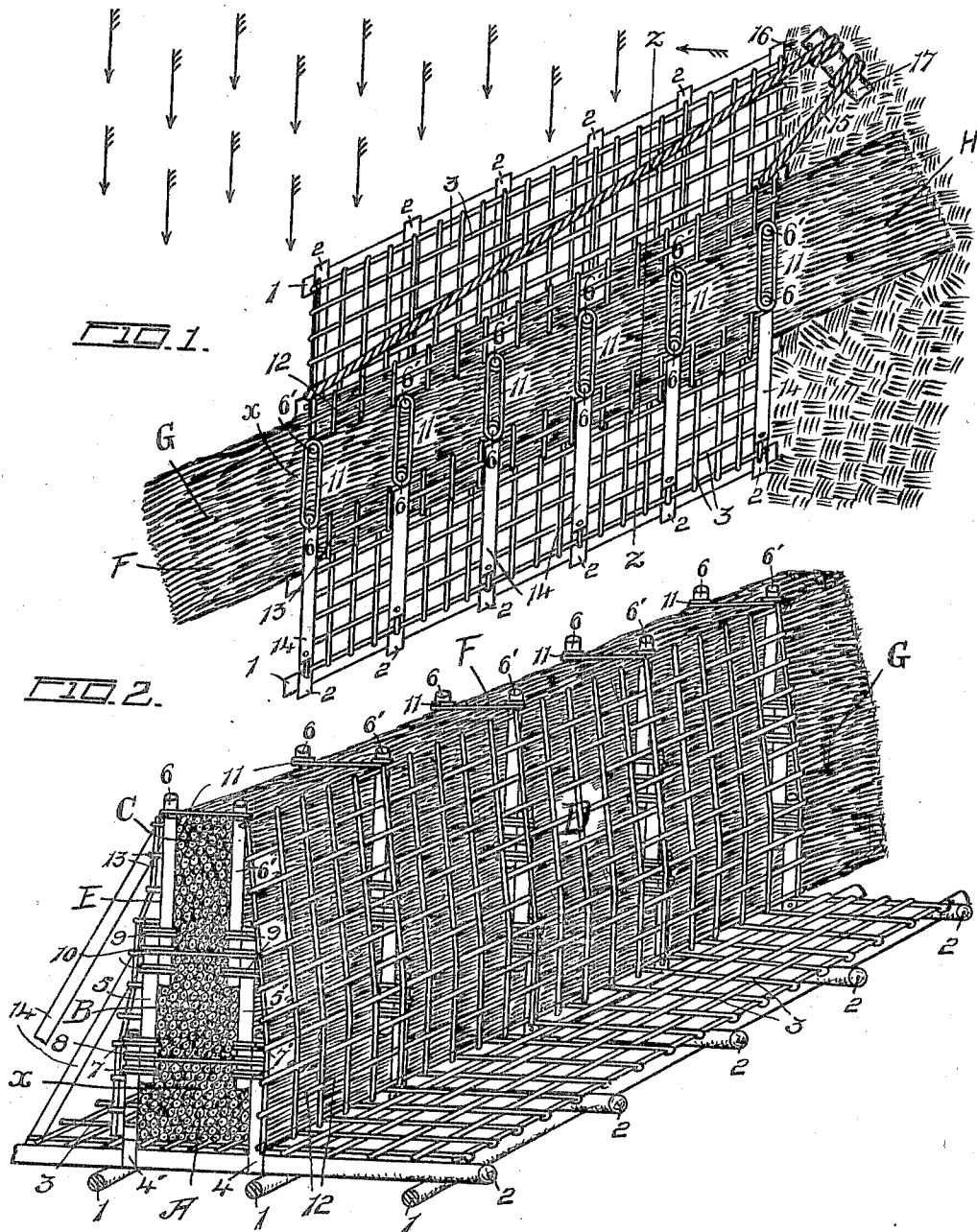
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H. F. KELLNER.

FASCINE.

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# UNITED STATES PATENT OFFICE.

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## FASCINE.

No. 812,045.

Specification of Letters Patent.

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*To all whom it may concern:*

Be it known that I, HENRY F. KELLNER, a citizen of the United States, and a resident of North Platte, county of Lincoln, and State of Nebraska, have invented a certain new and useful Fascine, of which the following is a specification.

The object of my invention is to provide a fascine to be constructed in sections one above the other. These sections consist of any permeable substance, such as brush and the like, forming the wall or fascine proper to collect all silt, sand, and other solids within the stream.

Referring to the accompanying drawings, forming a part of this specification, and wherein like characters of reference denote similar parts throughout both views, Figure 1 illustrates a plan view of my fascine, showing the manner and form in which it is secured to the bank of the river. Fig. 2 is a perspective view thereof in cross-section on line Z Z of Fig. 1 in direction of the arrow.

In carrying out the aim of my invention I use a plurality of pole members or timbers 1, to which are suitably secured the transverse pole members or timbers 2, which are provided with the wire covering or netting 3. This structure, it will be observed, forms the base or mat for the fascine proper, and it is approximately in the form of a rhomboid, so that one end of the same may be placed parallel to the bank to prevent the stream from cutting the same away at that point, so that the sides of the fascine will lie at a suitable angle to the stream, as clearly shown in Fig. 1.

Suitably secured to the two intermediate pole members or timbers 1 and the transverse pole members or timbers 2 are the upright pole members or timbers 4 4', 5 5', and 6 6', the pole members or timbers 5 and 5' being suitably secured to the pole members 4 and 4' by means of a wire fastening 7. I also use the wire fastening 9 to prevent the pole members 5 and 5', which are secured to the pole members or timbers 4 and 4' by means of the wire fastening 9 and the wires 10 and 11, from spreading outward. Secured to these upright pole members 4 4', 5 5', 6 6', which form the sections A B C of my fascine, are the wire coverings 12 and 13, which form the sides or walls D and E of my fascine. Placed between these walls D and E, which comprise the upright pole members 4 4', 5 5',

6 6' and the wire coverings 12 and 13, is any permeable substance F—such as brush, corn-stalks, weeds, hay, straw, and the like—which forms the permeable wall X, which is to collect all silt, sand, and other solids within the stream, thus forming a solid mass within this wall, which acts as a shield to divert the current. One or more of these permeable walls X may be built upward from the base or mat any suitable distance apart and parallel to one another. It will be noticed that this permeable substance F, such as brush and the like, extends beyond each end of the outer sides or walls D and E and the mat or base. The rear end G extends out into the stream, while the opposite end H is laid or buried in a trench dug in the river-bank to help support and hold the fascine in its proper place, as clearly shown in Fig. 1.

Secured to the transverse pole members or timbers 2 are suitable shore-cables 15 and 16, which are secured to a piling 17 upon the river-bank to help hold and support the fascine in its proper position in conjunction with the protecting end H of the fascine proper.

The upright permeable wall or structure X is suitably braced by means of the brace members 14, which extend upward from the transverse base or mat pole members or timbers 4', 5', and 6'.

It will be observed that my fascine is built upward of a plurality of sections, as clearly shown in Fig. 2, so that in using this method of constructing my fascine in sections it will enable me to build the same up to any desired height. When it is so desired to place a row of fascines out into the river or stream, I use a suitable cable, which is anchored or fastened to a suitable piling or weight in the river or stream, which cable extends out into the stream from a suitable piling on the shore, and to these cables I fasten a plurality of fascines to the cable by means of cables and suitable clips or fasteners to prevent the fascines from working or sliding out of place. These fascines may be placed out into the river at any suitable angle to the stream.

It is of course understood that my fascines may be made of any suitable size and of any permeable substance, and

Having thus shown what I consider the preferable way of carrying out my invention, but without limiting myself to the exact con-

struction described and shown, what I claim as new, and desire to secure by United States Letters Patent, is—

1. A fascine of permeable substance, built up of sections and having opposite ends projecting beyond the main body portion.

2. A fascine of permeable substance, consisting of a plurality of sections, and having projecting ends, in combination with a mat or base.

3. A fascine of permeable substance, consisting of a plurality of sections, the lower sections being secured to a mat or base, wire covering secured to each side of said sections and the top of said mat or base, and means for bracing said sections, substantially as described.

4. A fascine, comprising a wall of permeable substance protected by means of wire covering, and having opposite projecting ends

in combination with a base or mat having the wire covering and provided with brace members to support aforesaid wall.

5. A fascine of the character described consisting of a base or mat provided with a wire covering, upright sections of permeable substances extending upward from said base or mat to form the permeable wall, said wall having opposite ends projecting beyond said base or mat, and one end thereof to be buried in the river-bank, and in combination with the shore-cables to help support and hold the fascine in place.

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

HENRY F. KELLNER.

Witnesses:

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