G. MACCAFERRI.
GABION FOR PROTECTING RIVER BANKS.
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Fig. 1.

Fig. 2.

Fig. 3.

Inventor:
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By J. De Benedetti
Attorney.
To all whom it may concern:  

Be it known that I, GAETANO MACCAFERRI, a subject of the King of Italy, and a resident of Zola Predosa, in the Province of Bologna, Kingdom of Italy, have invented certain new and useful Improvements in Gabions for Protecting River-Banks, of which the following is a specification.

This invention relates to gabions for protecting the river-banks, its object being to provide box-like gabions made of a metallic lattice woven in a suitable form and bent afterward in such a way as to make a box with plain faces that will be filled with stones like the ordinary gabions.

In the accompanying drawings, Figure 1 shows the iron-wire lattice before bending, and Fig. 2 the gabion completed after the lattice has been suitably bent. Figs. 3, 4, 5, 6, and 7 show examples of other suitable forms of lattices for fitting gabions.

The same reference-letters a b c d e f throughout the figures indicate, respectively, the portions of metallic lattice that are designed to form bottom a, sides b c, ends d e, and cover f of the box.

The lattice instead of being in one piece may be in several pieces, corresponding to parts a b c d e f, tied together with iron wire.

The gabion is made as follows: The lattice is bent along the common sides of portions a b c d e f, and the near edges are tied together by interlacing iron wires. Fig. 1 shows a form of lattice in which cover f is next to side c and ends d e are next to bottom a.

In Fig. 3 the parts d f e are next one to the other in one piece next to bottom a.

In Figs. 4 and 5 cover f is in two parts f' and f'' of equal, Fig. 5, or different, Fig. 4, 40 size next to either end d e.

In Fig. 6 ends d e are next to side b. Ends d e could be in the same way next to cover f.

In Fig. 7 cover f is narrower than bottom a and ends d e have the form of a trapezium 45 whose bases are equal, respectively, to the widths of bottom a and of cover f. In this way is made a gabion whose cross-section is a trapezium, which gabion is specially fitted to capped revetment.

By opening suitably the angle between sides b c the gabion may be be fitted to revetment of any cylindrical surface without leaving interstices between two adjoining gabions. If also bottom a has a trapezoidal form, the gabion may be be fitted to conical revetment, as required sometimes.

Having now particularly described my invention, I declare that what I claim is—

1. Box-like gabions for protecting river-banks made by bending and tying in the form of a box with plain faces one piece or more pieces tied together, of iron-wire lattice of suitable shape.

2. Box-like gabions having according to the shape of the iron-wire lattice, from which they are made, trapezoidal section, in one or two directions as substantially set forth, and for the purpose specified.

Signed by me at Milan, Italy, this 6th day of August, 1906.

GAETANO MACCAFERRI. [L. S.]

Witnesses:

ERNEST SANTI,

THOMAS HARVEY.