

(No Model.)

2 Sheets—Sheet 1.

B. N. BRYANT.
JETTY.

No. 546,758.

Patented Sept. 24, 1895.

Fig. 1.

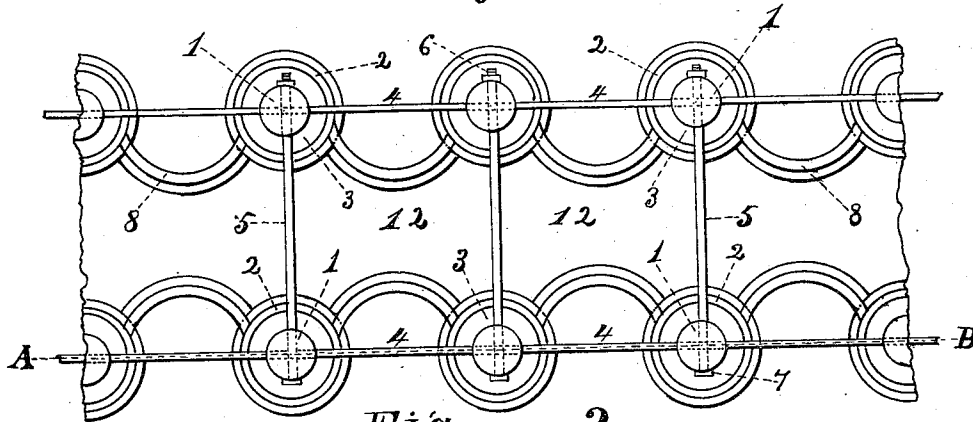
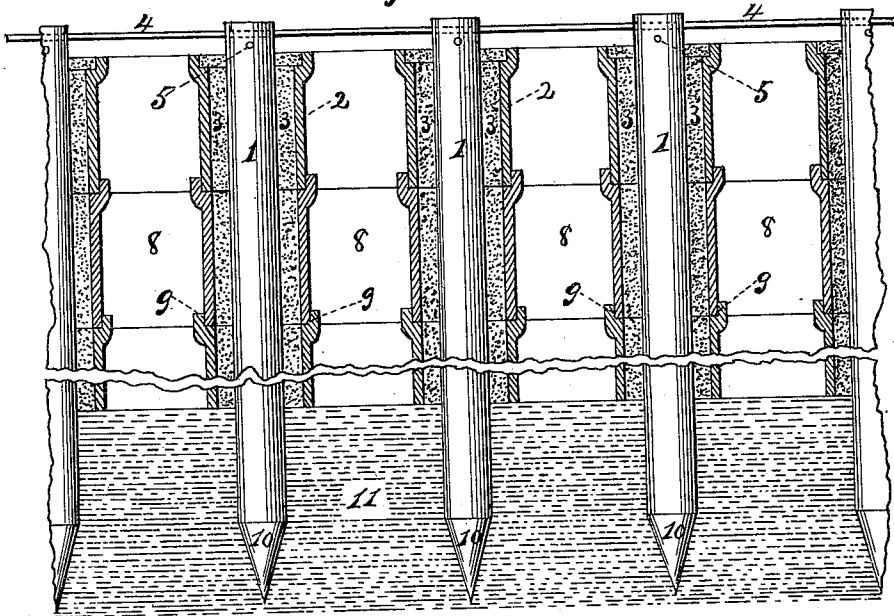


Fig. 2.



Witnesses
H. R. Rodgers
O. P. Bowser

Inventor, Benjamin N. Bryant
Per L. H. Lewis
Attorney

(No Model.)

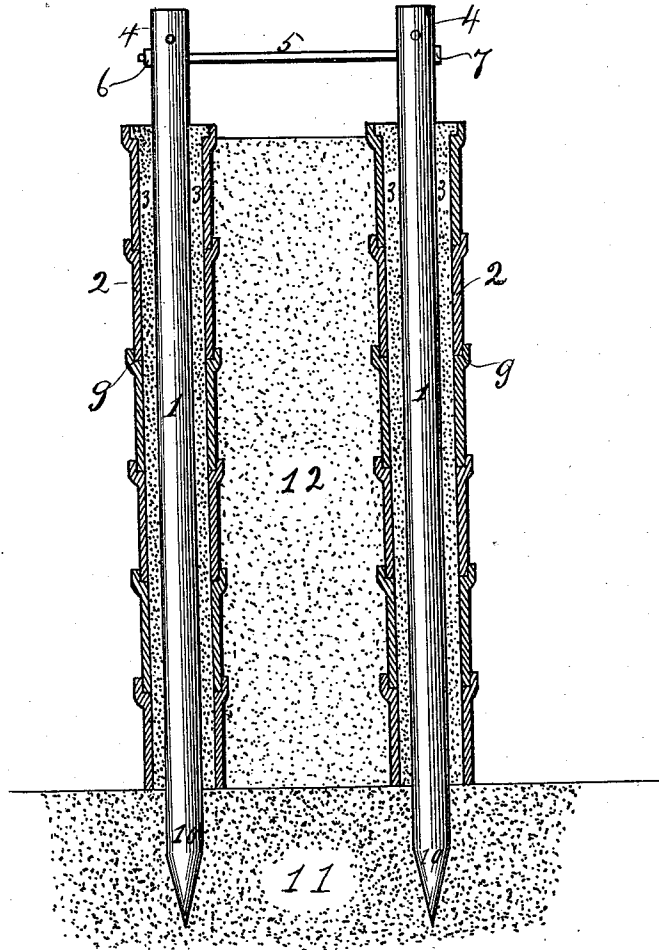
2 Sheets—Sheet 2.

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Fig. 3.



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E. A. Adey.
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Inventor:

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per L. H. Lewis Atty-

UNITED STATES PATENT OFFICE.

BENJAMIN N. BRYANT, OF DALLAS, TEXAS.

JETTY.

SPECIFICATION forming part of Letters Patent No. 546,758, dated September 24, 1895.

Application filed December 1, 1894. Serial No. 530,519. (No model.)

To all whom it may concern:

Be it known that I, BENJAMIN N. BRYANT, a citizen of the United States, residing at Dallas, in the county of Dallas, State of Texas, have
5 invented an Improvement in Jetties, of which the following is a specification.

My object is to provide a cheap and substantial jetty which will in all purposes answer for those usually constructed of stone or
10 other costly material. To accomplish this, I use piles driven in the ground in the ordinary way, but incase them in such a way that they will not be liable to early decay or infested by insects, which cut and destroy them when
15 not protected.

I attain this object by the mechanism illustrated in the accompanying drawings, in which—

Figure 1 is a plan view of a section of the
20 jetty. Fig. 2 is a vertical section through Fig. 1 from A to B. Fig. 3 is a cross-section through the structure, showing the piles, the tiles around same, and the cement or other analogous material placed between the tiles
25 and the piles.

Similar numerals refer to similar parts throughout the views.

The numeral 1 designates the piles driven into the ground at required intervals, which are incased by joints or sections of terra-cotta pipe 2, which rest on the ground and extend upwardly almost the full height of the piles, the space 3 around the piles, between the piping, being filled with cement or other analogous material. The piles thus incased are
35 held in a permanent and vertical position by rods 4, which pass through the heads of the piles, running parallel with the length of the structure and by rods 5, which pass through
40 the heads of two piles which stand opposite to each other across the structure, the rods being secured to the piles by thread and nut 6 and heads 7. The spaces in between two

rows of incased piles are filled in with pieces of terra-cotta 8, which are made in a curved
45 shape, said curve being turned inwardly. These curved pieces are provided with joints similar to those of the terra-cotta piping 9, which incases the piles. All of these joints may be filled with tar, cement, or other such
50 material to make a water-tight joint.

Numeral 10 shows the points of the piles, which are driven in the ground, and 11 shows the ground into which they are driven. In between the two rows of incased piles, with
55 their curve-shaped pieces of terra-cotta, is a space 12, continuous with the length of the jetty, which will be filled with mud, sand, earth, cement, asphalt, or other analogous material. The weight of this material is partly
60 received on the curved pieces of terra-cotta, which bind them closely to the piping which incases the piles, thus holding them in a vertical and permanent position.

In applying for Letters Patent on my jetty
65 I wish it understood that one-half of the construction described can as readily be applied to the lining of the banks of canals, rivers, &c.

I am aware that piles for ordinary purposes have been incased in a like manner to that
70 which I have mentioned. Therefore I do not claim it as my invention; but combined with other parts of my jetty I do claim it as a part of my invention.

What I claim as my invention, and desire
75 to secure by Letters Patent, is—

The combination consisting of a jetty having curved pieces of terra-cotta 8, filling in the spaces between the two rows of incased piles, with the curve of said pieces turned in-
80 wardly, all substantially as set forth.

BENJAMIN N. BRYANT.

Witnesses:

H. R. RODGERS,
O. P. BOWSER.