

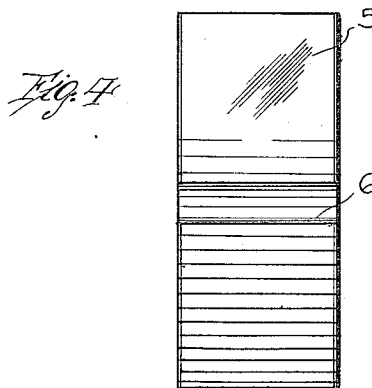
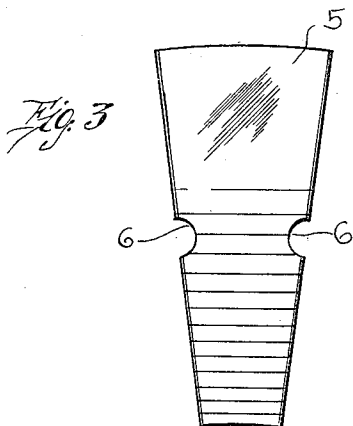
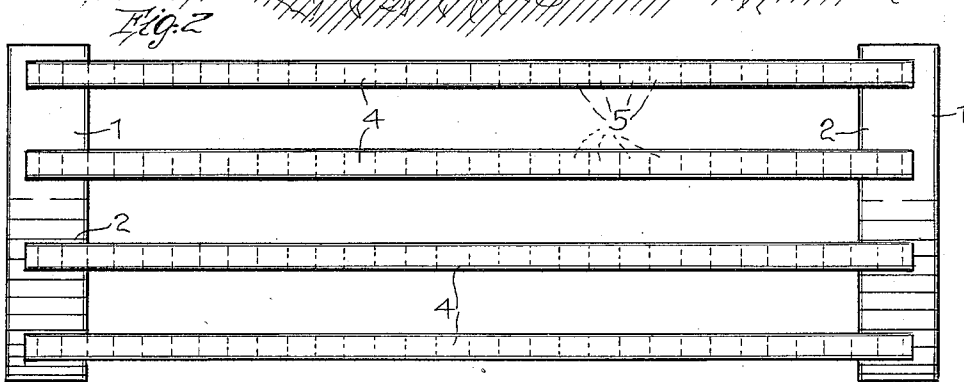
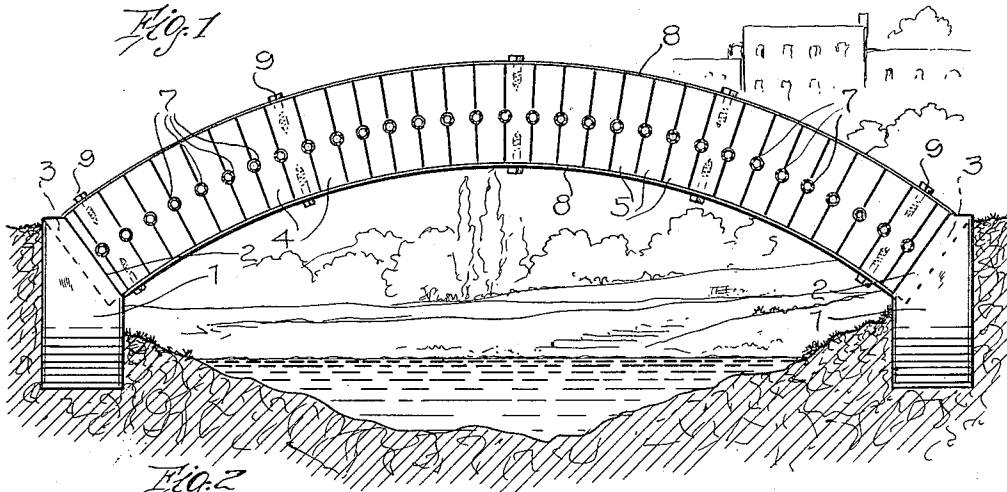
J. T. TRUJILLO.

BRIDGE.

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1,064,876.

Patented June 17, 1913.



Witnesses

Robert M. Sutphen
A. J. Hird.

Inventor
J.T. Trujillo

By *Watson E. Coleman*
Attorney

UNITED STATES PATENT OFFICE.

JOSE T. TRUJILLO, OF MALACHITE, COLORADO.

BRIDGE.

1,064,876.

Specification of Letters Patent.

Patented June 17, 1913.

Application filed January 8, 1913. Serial No. 740,887.

To all whom it may concern:

Be it known that I, JOSE T. TRUJILLO, a citizen of the United States, residing at Malachite, in the county of Huerfano and State of Colorado, have invented certain new and useful Improvements in Bridges, of which the following is a specification, reference being had to the accompanying drawing.

This invention relates to new and useful improvements in the construction of bridges, the object of the invention being to provide novel means for constructing bridge stringers and for setting the same in position.

Another object of the invention is to construct bridge stringers of wedge shaped blocks suitably secured and arranged to form an arched bridge.

A further object of the invention is to provide novel bridge constructing means which will possess advantages in points of efficiency and durability, is inexpensive of manufacture and at the same time is simple in construction and operation.

With the above and other objects in view, the invention consists in the novel features of construction and the combination and arrangement of parts to be hereinafter more fully described, pointed out in the claim and shown in the accompanying drawing, in which—

Figure 1 is a side elevation of an arched bridge constructed in accordance with my invention. Fig. 2 is a plan view thereof; and Figs. 3 and 4 are detail views of one of the blocks employed.

Referring more particularly to the drawings, 1 indicates the transverse abutments which are arranged upon opposite sides of the space which is to be bridged. Each of the abutments is provided with an inner tapering face 2 in which are formed the tapering spaced recesses 3 adapted to receive the ends of the stringers. The stringers or arch supporting members 4 comprise the tapering wedge shaped blocks 5 having semicircular recesses 6 formed upon each side thereof so that when the blocks are placed in position, the recesses form circular openings in which are arranged the pins 7. The openings, formed by the recesses 6 when the blocks are in position, are adapted to receive the transverse pins 7. These pins may be secured in position by means of ce-

ment or other suitable means may be used if desired.

Arranged at the top and bottom of the blocks 5 are the metal bands 8 which are securely held in position by means of the screw bolts 9, said bolts being adapted to pass through the bands and engage within the top and bottom ends of the blocks. It will be apparent that by providing the blocks 5 with the semicircular recesses 6, which when the blocks are in position form suitable openings for the pins 7, this construction will prevent relative movement of the blocks. Thus if one of the blocks should become loosened, it will be held against relative movement by means of the pins.

In erecting the stringers, the ends thereof are adapted to be arranged in the recesses 3 of the abutments, it will be apparent that by having the recesses 3 formed co-incident with the wedge shaped blocks, the ends of the stringers will fit securely therein, thus preventing any relative movement of the stringers. After the ends of the stringers have been placed in position, cement or other similar material may be used for securely fastening the ends within the recesses.

From the above description taken in connection with the accompanying drawing, it will be readily apparent that I have provided a simple and durable means for constructing bridge stringers, whereby the stringers may be readily applied to their relative positions and securely held.

It will be understood that while I have shown the abutments 1 constructed of cement, it will be apparent that these abutments may be of stone, wood or any other suitable material desired. It will also be apparent that the device is extremely simple in construction and can be manufactured at comparatively low cost.

While I have shown and described the preferred form of my invention, it will be obvious that various changes in the details of construction and in the proportions may be restored to for successfully carrying my invention into practice without sacrificing any of the novel features or departing from the scope of the appended claim.

What I claim is:—

In combination with an abutment pro-

vided with spaced tapering recesses, of
arched stringers comprising substantially
wedge shaped blocks having inclined side
walls extending from one end of the block
5 to the other, said blocks having semicircular
recesses formed in their inclined walls upon
each side thereof, said blocks being arranged
in parallel relation whereby the recesses will
form circular openings, transverse pins ar-
10 ranged within said openings to prevent lat-
eral movement of the blocks, said pins hav-

ing their ends terminating at the outer edges
of the blocks, and arcuate metallic bands se-
cured to the top and bottom ends of said
blocks.

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

JOSE T. TRUJILLO.

Witnesses:

GEO. J. INGRAHAM,
J. B. HUDSON.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents,
Washington, D. C."
