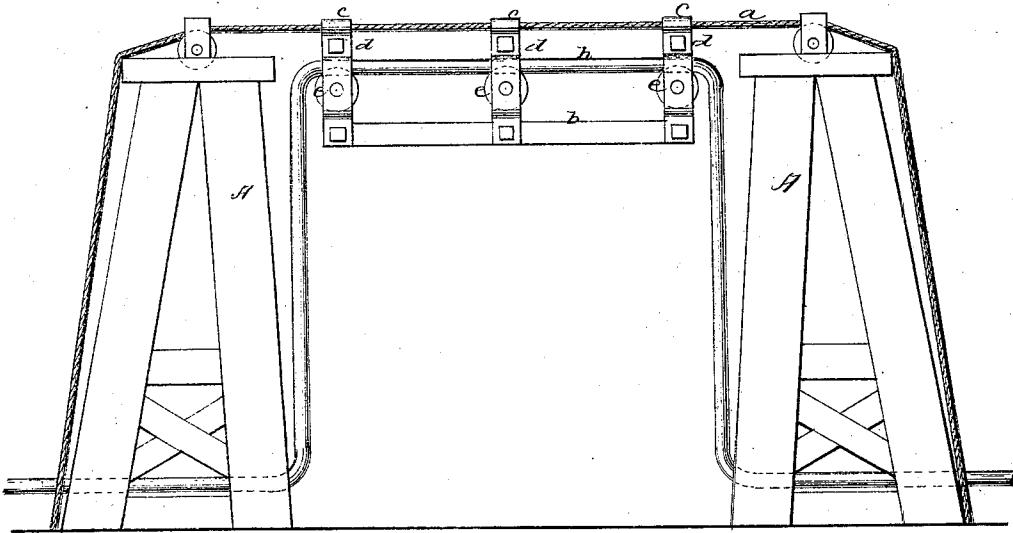


T. Donnelly, J. H. & A. Anchors,

Aqueduct.

No. 104,284.

Patented Jan. 14, 1870.



Witnesses:

Kate Hagmann

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United States Patent Office.

THOMAS DONNELLY, OF PITTSBURG, AND JAMES H. ANCHORS, AND ALLEN ANCHORS, OF BEAR CREEK STATION, PENNSYLVANIA.

Letters Patent No. 104,284, dated June 14, 1870.

IMPROVEMENT IN CONVEYING LIQUIDS.

The Schedule referred to in these Letters Patent and making part of the same

To all whom it may concern :

Be it known that we, THOMAS DONNELLY, of Pittsburg, in the county of Allegheny, and JAMES H. ANCHORS and ALLEN ANCHORS, of Bear Creek Station, in the county of Clarion and State of Pennsylvania, have invented a new and improved Mode of Conveying Liquids; and we do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawing forming a part of this specification, in which the figure is a side elevation.

This invention consists of a sliding frame, held on a cable stretched over abutments, and used for supporting the pipes in which petroleum or other liquid is conveyed over water, some mode of sustaining such pipes above water having been found necessary, in order to avoid the mischief occasioned by ice and debris when the pipes are laid in such water as falls in their course.

In the drawing—

A A are abutments, supposed to be built at the margins of a stream or lake.

a is a wire or hempen cable, stretched tightly over the abutments by means well known in engineering.

b is a frame, suspended from the cable over the water, such suspension being effected by sockets *c* at

the upper ends of hangers *d*, through which sockets the cable passes, and, by means of which, the frame may be slid on the cable.

e are rollers, supported in the hangers *d*.

h is the petroleum-pipe, resting on the rollers and bent downward at each end of the frame *b* to the general level of its course.

By means of the rollers *e*, the frame *b* may be moved in one direction or the other beneath the pipe, to the point which most needs support.

Having thus described our invention,

What we claim as new, and desire to secure by Letters Patent, is—

The frame *b*, provided with the rollers *e*, hangers *d*, and sockets *c*, and combined with the cable *a*, pipe *h*, and abutments A, in the manner and for the purpose specified.

THOS. DONNELLY.
JAMES H. ANCHORS.
ALLEN ANCHORS.

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THOS. MUNN,
S. D. HERRON, Jr..

Witnesses as to J. H. ANCHORS and A. ANCHORS:

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WM. P. FINLEY.