

J. G. BREWER.
Feeding-Canals.

No. 133,353.

Patented Nov. 26, 1872.

Fig. 1.

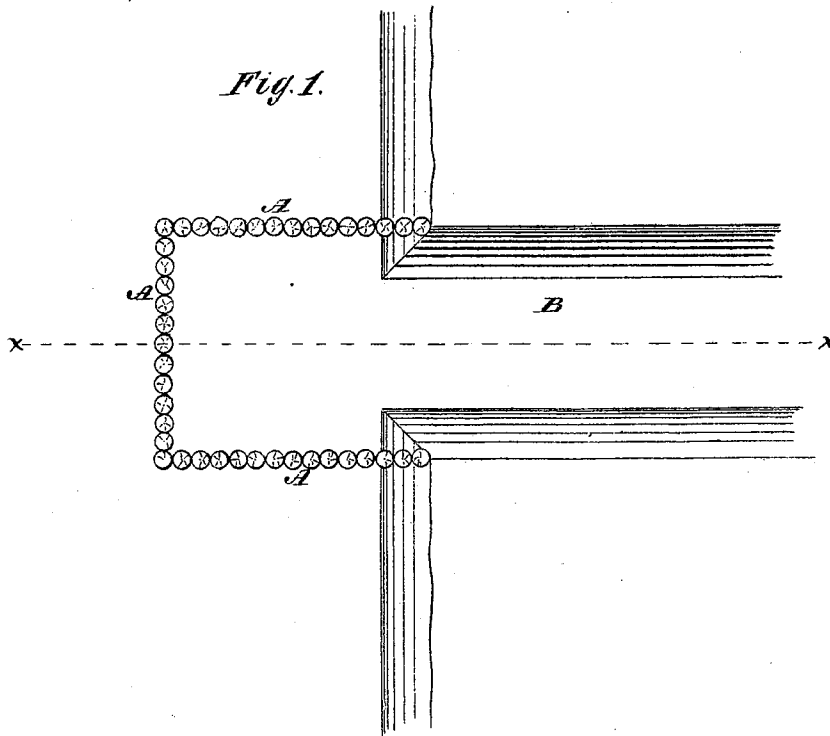
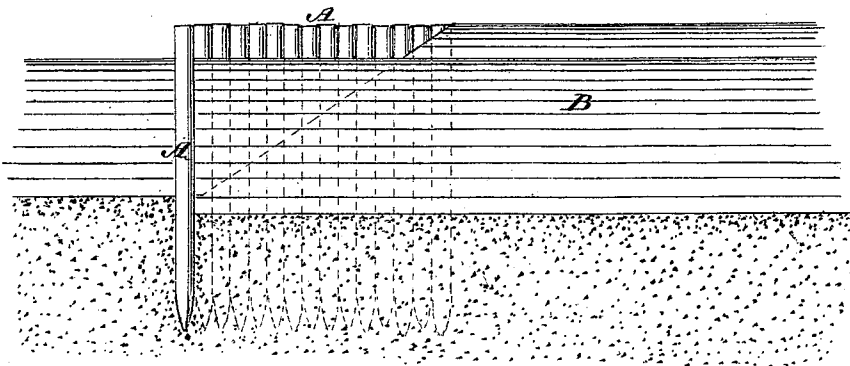


Fig. 2.



Witnesses:

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UNITED STATES PATENT OFFICE.

JAMES G. BREWER, OF LONE TREE, NEBRASKA.

IMPROVEMENT IN FEEDING CANALS.

Specification forming part of Letters Patent No. **133,353**, dated November 26, 1872.

To all whom it may concern:

Be it known that I, JAMES G. BREWER, of Lone Tree, in the county of Merrick and State of Nebraska, have invented a new and Improved Mode of Conducting Water from Rivers into Canals, of which the following is a specification:

In the accompanying drawing, Figure 1 is a top view illustrating my improved method. Fig. 2 is a section of the same taken through the line *x x*, Fig. 1.

Similar letters of reference indicate corresponding parts.

My invention consists in an improved mode of conducting water from rivers which flow over shifting sands or quicksands into canals or races to enable the water to be used as a motive power, as hereinafter more fully described.

In rivers flowing over quicksands or shifting sands if a canal or race is opened to draw off water from the river it at once fills with the sand; and if screens are used to keep out the sand the meshes soon become filled with the sediment floating in the water and exclude the water as well as the sand.

To remedy this difficulty I drive piles A into the bottom of the river or into the sand near the river so close together as to exclude both

sand and water, or at least the sand, and inclosing a larger or smaller space, according as more or less water is required. The piles A form a close curb all around the inclosed area except an opening for the canal or race B. The water rises through the sand in the curb, which forms the beginning of the canal, and flows through the said canal or race to the place where it is to be used. Should the sand rise with the water the sand may be kept back by wire screens, which, in this case, will not choke, as the water rising through the clean sand is free from sediment.

This invention enables the water of the Platte, Arkansas, and other similar rivers to be used for water-power, which heretofore has been impossible.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

The mode herein described and set forth of conducting water into canals or races from rivers flowing over quick or shifting sands.

JAMES G. BREWER.

Witnesses:

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