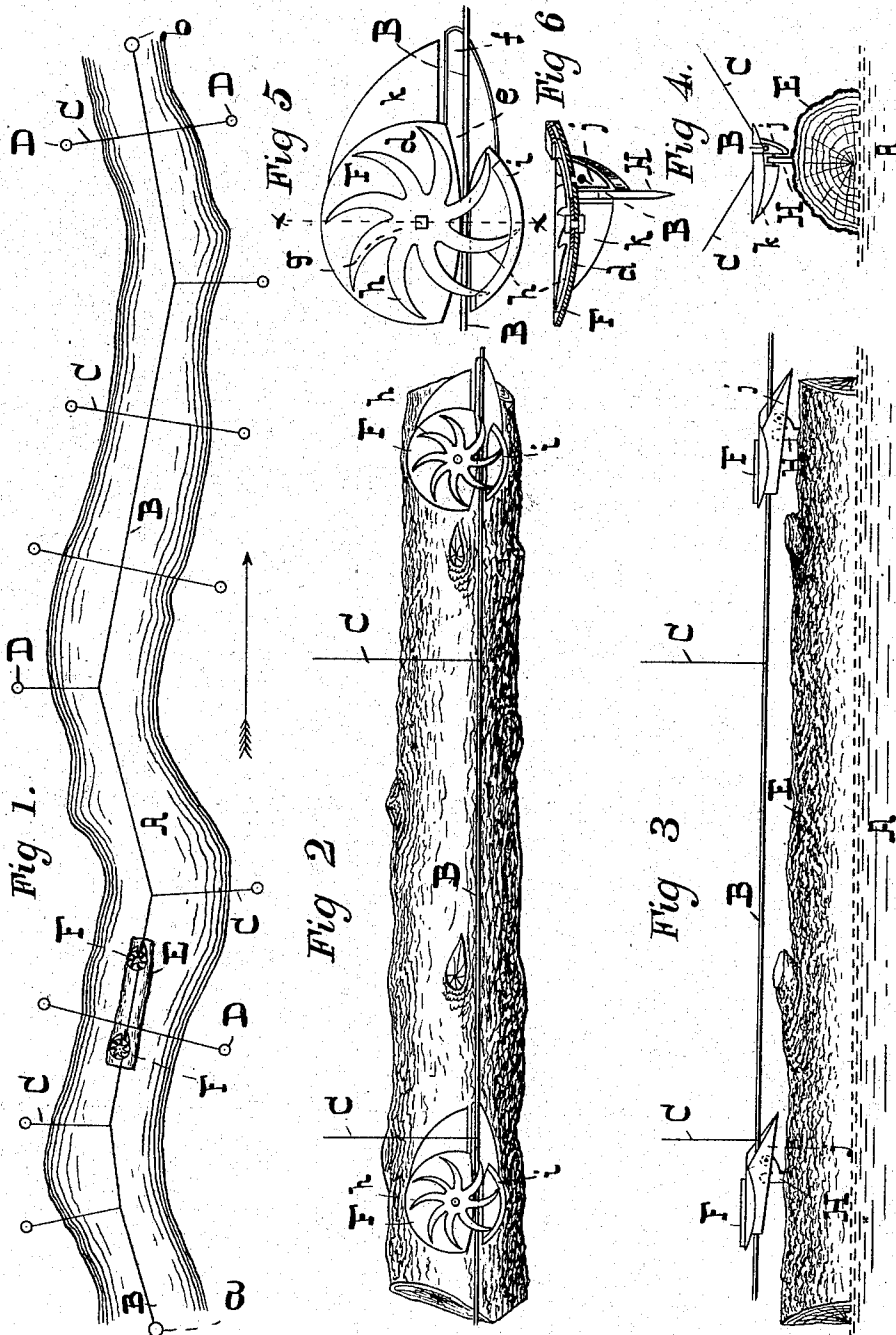


(No Model.)

J. FINNEY & G. DAVIDSON.
MEANS FOR GUIDING FLOATING LOGS, &c.

No. 505,039.

Patented Sept. 12, 1893.



-WITNESSES-

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UNITED STATES PATENT OFFICE.

JASPER FINNEY AND GEORGE DAVIDSON, OF GOULDING, ASSIGNORS OF ONE-THIRD TO E. EWING REESE, OF PENSACOLA, FLORIDA.

MEANS FOR GUIDING FLOATING LOGS, &c.

SPECIFICATION forming part of Letters Patent No. 505,039, dated September 12, 1893.

Application filed December 27, 1892. Serial No. 456,321. (No model.)

To all whom it may concern:

Be it known that we, JASPER FINNEY and GEORGE DAVIDSON, of Goulding, in the county of Escambia and State of Florida, have invented certain Improvements in Means for Guiding Logs in their Transportation by Floating Down Streams and Rivers, of which the following is a specification.

This invention relates to means whereby a log as it floats down stream is guided or maintained in the center of the stream, or at any required distance from either of the banks thereof, or made to change its course so as to avoid any obstruction such as a rock or an island.

The said invention, briefly stated, consists in a cable which is stretched along the river or stream from the place at which the logs are shipped, to the place of destination, and supported at a proper distance above the surface of the water, at the surface, or slightly below the same, by means of guy wires attached to poles, trees or any other elevated objects on the banks, adapted for the purpose.

It further consists in a trolley which is secured to the log, through which the stream cable passes and which is of such construction that the guy wires may be passed without their offering any obstruction to the movement down stream, of the trolley and log, as will hereinafter fully appear.

In the further description of the said invention which follows, reference is made to the accompanying drawings forming a part hereof and in which—

Figure 1 is a plan of the stream showing the stream cable, the guy wires and a log provided with the trolley. Fig. 2 is a top view of the log and the stream cable with its guy wires, on an enlarged scale. Fig. 3 is a side view of Fig. 2. Fig. 4 is an end view of Fig. 3. Figs. 5 and 6 are still further enlarged views of the trolley, the former showing a top, and the latter a section of the former taken on the dotted line $x-x$.

Referring to the drawings, A represents the stream and B the stream cable stretched between a pole or anchor a at the point of shipment, and a similar anchor b , at the place of destination.

CC are guy wires which connect the stream

cable B to posts or trees D, on or near to the banks. These guy wires are so arranged as to make the stream cable conform somewhat to the general course of the river and also to deflect the cable where necessary to avoid obstructions in the stream.

E represents a log. The log is provided with two trolleys F which serve to connect it with the stream cable. Each trolley consists of a disk or circular plate d in two parts or sections separated by a channel e and which are connected by a trough f through which the stream cable passes. Pivoted to the center of the upper side of the plate d is a revolvable guard g consisting of a circular plate having a number of curved arms h several of which are at all times across the slot e between the two parts or sections of the disk d . The arms which cross the slot serve to prevent the stream cable from leaving the trough and at the same time allow of the guy wires C passing the trolley. The ends of the active arms h pass under a lip i which prevents their being raised or lifted by the cable.

In the drawings, the disk d is shown as dished so as to make its surface conform somewhat with the direction taken by the guy wires, but a flat disk will answer the purpose as well as a dished one and is cheaper to make. When a flat disk is used the guard g is also flat.

On the under side of the disk d is a lug j pivoted to a dog H which is driven in the log. A stiffening bracket k connects the upper portion of the lug j with the edge of the disk d .

Supposing a log is provided with trolleys as described, and it is desired to float it down stream to the point h , it is placed under the stream cable. As the log moves onward, the cable enters the trough, the arms h moving around to admit of the attachment. When the log is connected to the cable as described, it cannot become detached, and as the curved arms h come in contact with the guy wires they turn and allow the said wires to pass. The log is now carried with the current, and follows the stream cable until it reaches its destination, without any attention whatever.

It will be understood that a number of logs may follow each other very closely, and large numbers be thus transported without any ex-

pense for labor in guiding them. Further, it will be seen that rafts consisting of a large number of logs secured together, can be transported the same as a single log.

5 We claim as our invention—

1. In combination with a cable extending along a river and secured between the banks thereof, a trolley connected to the cable and adapted to move longitudinally thereof, and
10 suitable mechanism to attach the said trolley to a log, whereby the said log may be guided while floating down stream, substantially as specified.

2. In combination with a dog adapted for
15 attachment to a log, a trolley pivoted thereto, the same consisting of a disk in separated sections connected by means of a trough, and a guard plate having arms which cross the slot or opening between the two sections of the
20 disk, substantially as specified.

3. As means for guiding logs as the same

are floated down a stream or river, a stream cable secured in the said river from between posts or anchors situated at the shipping point and the place of destination, guy wires
25 attached to the said stream cable and connected to poles on the river banks whereby the cable may be made to conform to the general direction of the river or stream and be also deflected for the purpose of avoiding obstructions, combined with a trolley adapted for at-
30 tachment to a log, said trolley having a guiding trough and a revoluble guard which prevents the lifting of the said cable from the trough and at the same time allows the guy
35 wires to pass the trolley, substantially as specified.

JASPER FINNEY.
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Witnesses:

ALEXANDER DONALDSON SLACK,
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