

(No Model.)

G. GAGNON.

CABLE GRIP FOR LOGGING AND OTHER PURPOSES.

No. 526,224.

Patented Sept. 18, 1894.

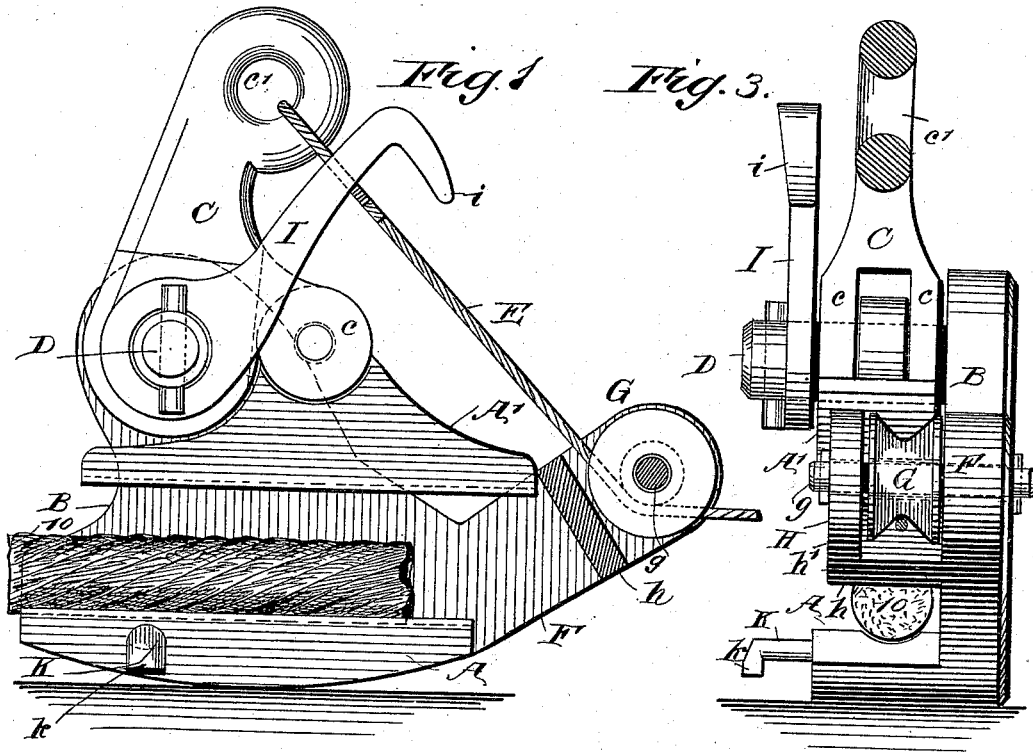
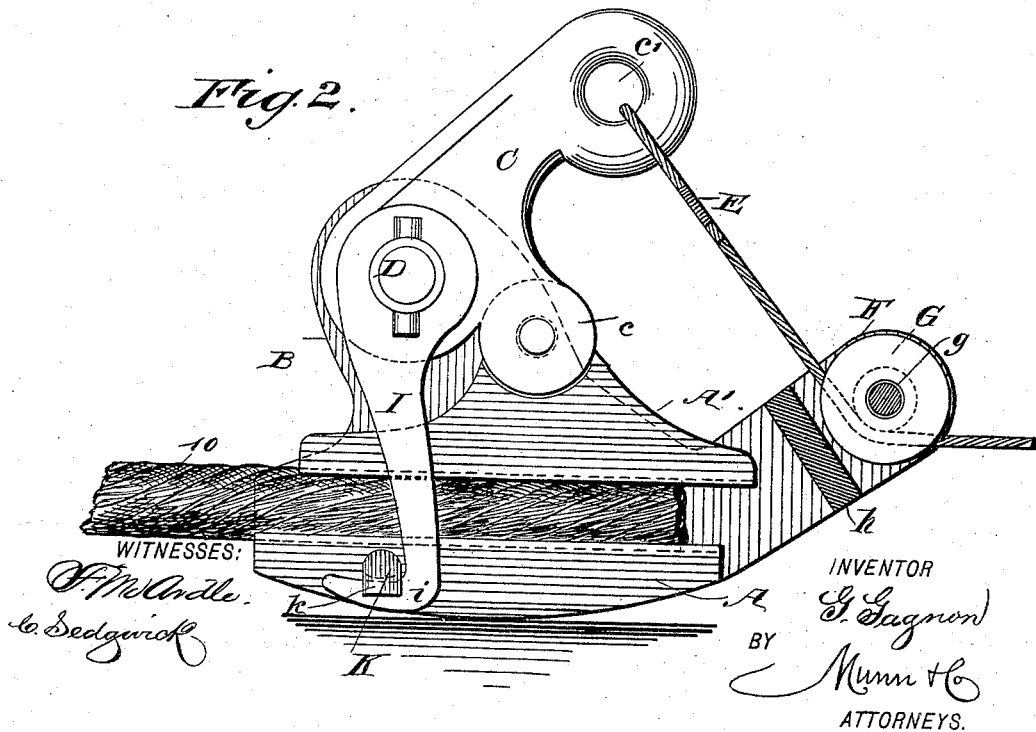


Fig. 2.



UNITED STATES PATENT OFFICE.

GILBERT GAGNON, OF NANAIMO, CANADA.

CABLE-GRIP FOR LOGGING AND OTHER PURPOSES.

SPECIFICATION forming part of Letters Patent No. 526,224, dated September 18, 1894.

Application filed January 13, 1894. Serial No. 496,773. (No model.)

To all whom it may concern:

Be it known that I, GILBERT GAGNON, of Nanaimo, in the Province of British Columbia and Dominion of Canada, have invented a new and Improved Cable-Grip for Logging and other Purposes, of which the following is a full, clear, and exact description.

The object of the invention is to provide an improved and efficient grip, in which the drag or resistance of the log or other object being hauled and also the draft of the cable, are utilized in maintaining the jaws closed on the cable.

The invention consists in the novel features hereinafter pointed out and defined in the claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar figures and letters of reference indicate corresponding parts in all the figures.

Figure 1 is a side elevation of a cable grip constructed in accordance with my invention, showing the same in the open position. Fig. 2 is a similar view, showing the grip closed; and Fig. 3 is a front elevation, partly in section.

In constructing a cable grip embodying my invention, the fixed jaw A is formed at the bottom edge of the vertically-disposed plate or body B, and is rounded on the under side, as shown, to form a runner, thus specially adapting the grip to logging purposes. Above the fixed jaw A is arranged the movable jaw A', which is pivoted between arms c that project from the under side of a lever C, which in turn is fulcrumed at one end on a pin D that extends laterally from a body B of the grip, and formed at its free end with an eye c', or an equivalent device, for affording proper attachment of a rope, chain or cable E, to which the log or other object to be hauled is connected.

At the rear of the grip is an arm F, which ranges upwardly and rearwardly, and at its outer end said arm F is given a forked formation by producing thereon an L-shaped arm H, which extends laterally from the main arm F, as at h and then parallel with the latter as at h', and through the fork thus provided is passed the pin g of a grooved or concaved idler G.

The rope or cable E, which is secured to the lever C, as above mentioned, passes under the idler G, and is secured to the log or other object (not shown) in any suitable manner, and the member h of arm H forms a guard or keeper for such rope.

The movable jaw A' is supported from the lever C at a point between the fulcrum and free end of said lever, whereby it is movable bodily in an arc of which the fulcrum pin D of the lever is the center, and in addition it is free to rock on its pivot to assume a position parallel with the draft cable 10. In operation, the movable jaw having been closed on the draft cable 10, and the connecting rope or chain E of the log being taut, when the draft cable is caused to travel, the drag or resistance of the log or other object, will be exerted to pull down the lever C, causing the movable jaw to be firmly pressed against the cable, and in addition, the draft of the cable 10 will also tend to maintain the jaw closed, as the latter will in a measure act as a cam in response to the forward pull of the cable. A retainer is provided for preventing the accidental unshipping of the grip by a lateral movement, such retainer consisting of an arm or latch I, which is pivoted on the fulcrum pin D of the lever C, or other suitable part of the grip, said arm being movable across the space between the jaws, at the outside of the latter, and terminating at its free end in a hook i, which is adapted to engage a stud K, formed on the side of the fixed jaw, the stud preferably having a depending outer end k. When the grip is to be entirely removed from the draft cable, the arm I, is unhooked from the stud K, and the movable jaw raised.

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

1. A cable grip, comprising a body having a fixed jaw, a movable jaw arranged in connection therewith, a lever fulcrumed at one end to the body, to which lever the movable jaw is pivoted at a point intermediate of the fulcrum and free end of the lever, and means for connecting the free end of the lever with the log or other object to be hauled, substantially as described.

2. A cable grip, comprising a suitable body,

gripping jaws, a lever to which one of said jaws is pivoted, at a point intermediate the fulcrum and free end of the lever, and means for connecting the free end of the lever with
5 a log or other object to be hauled, substantially as described.

3. The combination in a cable grip, of a body having a fixed jaw and formed with a rounded surface on the under side to form a
10 runner, the body further being provided with a rearwardly-extending arm, a lever fulcrumed on the body above the fixed jaw, a movable jaw pivoted on the lever between its fulcrum and free end, a rope or the like for
15 connecting the lever with the log or other object to be hauled, and an idler on the rearwardly-projecting arm of the grip, around which said rope passes, substantially as described.

20 4. The combination in a cable grip, of a body having a fixed jaw and provided with a

rearwardly-extending arm, a lever fulcrumed on the body at the upper end of the latter and formed with arms at its under side and with an eye at its free end, a movable jaw pivoted
25 on the lever intermediate of its fulcrum and free end, an idler pulley on the rearwardly-extending arm of the body, an L-shaped or forked formation on said arm, consisting of a branch arm, which ranges by its one arm
30 across the face or periphery of the idler, and is united to the rearwardly-extending arm of the body, a retainer arm pivoted at the upper end of the body, adapted to swing across the jaws
35 at the outside and formed with a hooked end, and a catch stud for said arm, substantially as described.

GILBERT GAGNON.

Witnesses:

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