

No. 706,246.

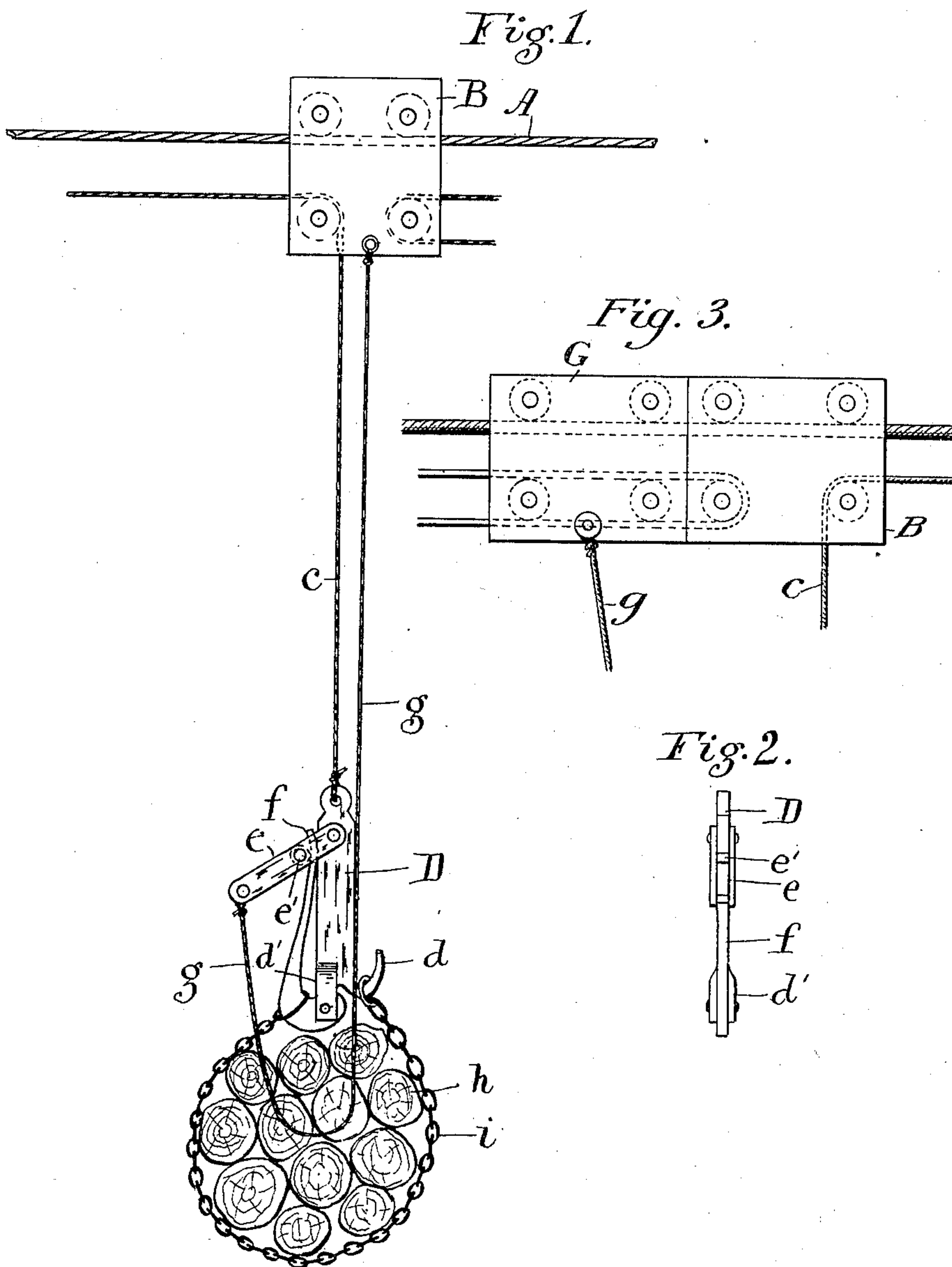
Patented Aug. 5, 1902.

E. F. MARR.

RELEASING HOOK FOR HANDLING LOGS, &c.

(Application filed Oct. 17, 1901.)

(No Model.)



Witnesses:
Harry B. Russ
D. H. Corser

Inventor:
E. F. Marr
by L. B. Bates
W. Atty.

UNITED STATES PATENT OFFICE.

EDGAR F. MARR, OF CLINTON, MAINE.

RELEASING-HOOK FOR HANDLING LOGS, &c.

SPECIFICATION forming part of Letters Patent No. 706,246, dated August 5, 1902.

Application filed October 17, 1901. Serial No. 78,920. (No model.)

To all whom it may concern:

Be it known that I, EDGAR F. MARR, a citizen of the United States of America, and a resident of Clinton, Kennebec county, State of Maine, have invented certain new and useful Improvements in Releasing-Hooks for Handling Logs, &c., of which the following is a specification.

My invention relates to means for handling logs where they are to be piled on the banks of a river, removed from such piles back into the water, and manipulated in similar ways, although it is capable of use for other purposes.

The invention is particularly designed to drop the logs automatically into the water when they are being removed by means of a cable and trolley from the pile to the water.

Hitherto it has been customary when the logs were lifted from the pile and brought over to be lowered into the water for a man to be stationed at the point where they were dropped into the water to unhook the load; and the object of my invention is to unhook the load of logs automatically when they are lowered to a point immediately above the water. For this purpose I make use of a releasing-hook, which may be of any well-known form, connecting it with the trolley by means of a cord, so that when the hook in being lowered reaches the end of the cord the latter will trip the load, letting it fall into the water. In connection with this combination I have also devised a special hook well adapted to be used in this connection and hereinafter fully described.

I illustrate my invention by means of the accompanying drawings, in which—

Figure 1 shows an elevation of my device supporting a load of logs, and Fig. 2 is a view of the hook taken at right angles to that shown in Fig. 1. Fig. 3 shows an alternate manner of fastening the upper end of the releasing-cord.

A represents the cable, and B is the trolley, *c* being the fall or line for raising and lowering the logs. On the lower end of the line *c* is the releasing-hook consisting of the shank D, having on the lower end a hook *d* for holding one end of the binding-chain *i*, which is here represented as holding a bunch of logs *h*. The other end of the chain *i* is held by the releasing latch or lever *f*, the lower end

of which is pivoted to the lower end of the shank D between downward-projecting lugs *d'*, the upper end, when the hook is in locking position, being against the shank. The lower portion of the latch curves outward, allowing room for the end of the chain between the shank and the latch. The latch is held in its retaining position by means of a link *e*, pivoted to the upper end of the shank. The link has a pin or bolt *e'*, which falls down over the upper end of the latch when the link is down, retaining the latch in operative position. The link extends outward some distance beyond the pin *e'* and is there attached to the lower end of the tripping-cord *g*, the upper end being attached to the trolley.

It will be seen that when the bunch of logs is lowered the length of the cord *g* the link *e* will be lifted and the chain released, dropping the logs, so that the logs may be dropped at any desired point by regulating the length of the cord *g*.

In Figs. 1 and 2 I have shown the upper end of the cord *g* attached to the same trolley over which the fall passes; but it is obvious that it may be fastened to a separate trolley—as, for instance, the trolley G. (Shown in Fig. 3.) By this arrangement the cord is less liable to tangle with the fall than where they are both connected to the same trolley, and it is immaterial how the upper end of the cord *g* is fastened, so long as it is firmly secured. In the modification shown the two trolleys practically act as one, because taken together they perform the functions of the single trolley shown in Figs. 1 and 2.

I claim—

The herein-described device for handling logs, &c., consisting of a cable, a trolley thereon, a hoisting-line running over said trolley, a releasing-hook on the lower end of said line consisting of a shank, a releasing-lever pivoted to the lower end of said shank, a releasing-latch for releasing said lever, a tripping-cord connecting said latch with the trolley and a binding-chain secured by one end to the shank and by the other end to the releasing-lever.

Signed this 9th day of October, 1901.

EDGAR F. MARR.

Witnesses:

MARTIN JEWELL,
S. W. BATES.