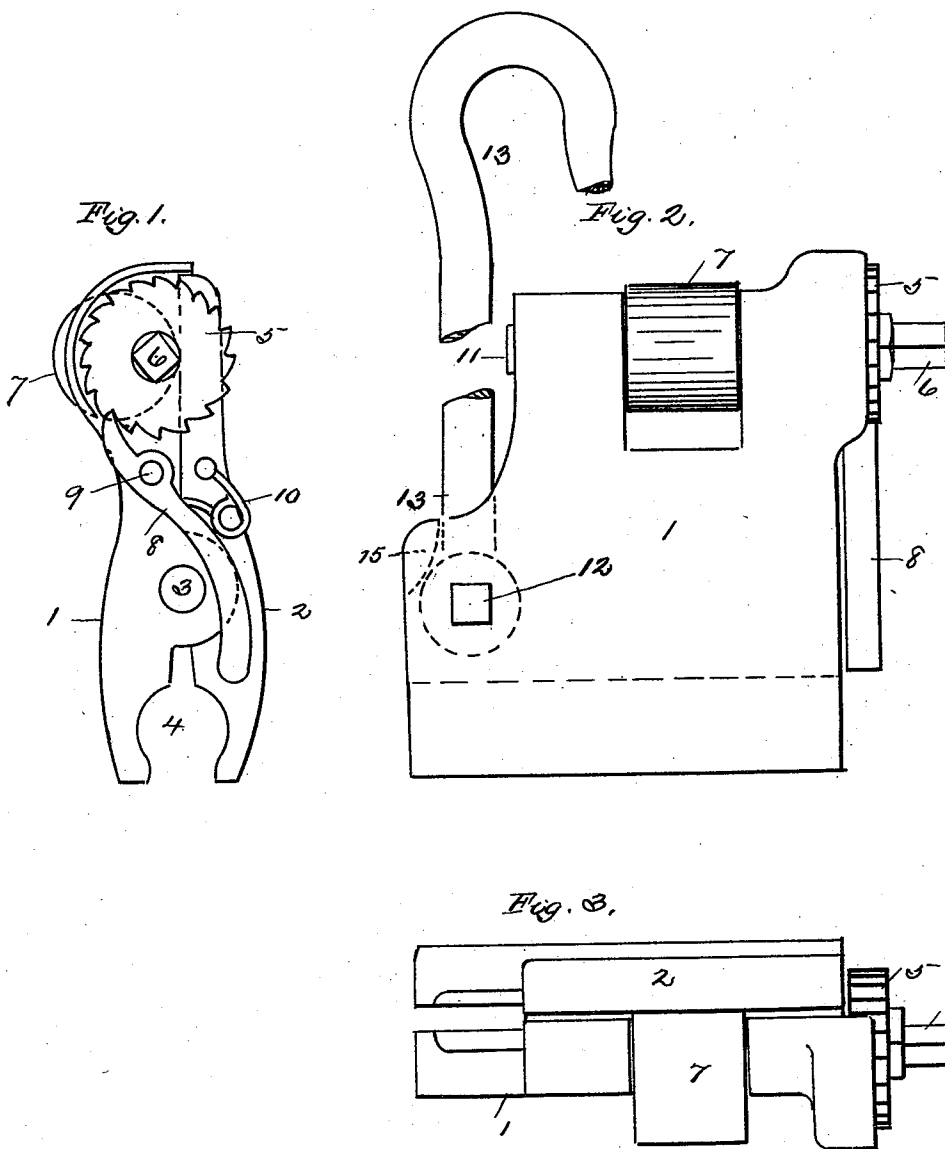


(No Model.)

F. T. HOGG.  
CABLE GRIP.

No. 513,014.

Patented Jan. 16, 1894.



Witnesses: *Frank T. Hogg* Inventor.  
*August H. Smith*  
*A. C. Harrison* Rev. *C. A. Lewis*  
att'y.

# UNITED STATES PATENT OFFICE.

FRANK T. HOGG, OF BROWNSVILLE, PENNSYLVANIA.

## CABLE-GRIP.

SPECIFICATION forming part of Letters Patent No. 513,014, dated January 16, 1894.

Application filed March 1, 1893. Serial No. 464,226. (No model.)

*To all whom it may concern:*

Be it known that I, FRANK T. HOGG, a citizen of the United States, residing at Brownsville, in the county of Fayette and State of Pennsylvania, have invented certain new and useful Improvements in Cable-Grips; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

My invention relates to an improved cable grip for vehicles; and consists in certain details of construction and combination of parts as will be fully described hereinafter.

In the accompanying drawings, Figure 1, is an end elevation of my improved cable grip, which is constructed in accordance with my invention. Fig. 2 is a side elevation of the same. Fig. 3 is a plan view.

To put my invention into practice I provide two castings 1 and 2 of a suitable size and form of construction, and hinge the same together at a point near the base by means of a short shaft 3. At the base of each of these castings 1 and 2, below the hinge 3 are semi circular recesses 4, forming the grip jaws in which the cable is arranged. Arranged at the top of the casting 1 is a shaft 11 to which is attached an eccentric 7 adapted to be operated against the inner side of the casting 2, thereby operating the same to close the grip-jaws. Attached to the one end of this shaft 11 is a toothed wheel 5 against which a pivoted pawl 8 is made to operate to lock the said wheel at any desired point. This pawl 8 is backed by a spring 10 to hold the same engaged with the wheel, or the lower end of the said pawl may be weighted and thereby dispense with the use of the spring. Attached by means of a pin 12 is a bar or hook 13 which serves as a means of connecting the grip to the bottom of the vehicle. This connecting hook 13 can

be rendered practically rigid in relation to the remaining parts of the clip or grip, either by making the connecting bolt or pin (as also the eye in the hook) square or rectangular in section, or by placing lugs 15, on the two side plates of the grip, thus retaining the shank of the hook 13, in a vertical position when the grip is in position on the haulage rope. This is done to prevent the hook from assuming an angular position when in service, as any considerable departure from the vertical would be deleterious to its efficiency in haulage.

In operation a lever, wheel or other means is attached to the square end 6 of the shaft 11, and by a slight rotation of the said means the eccentric 7 engages with the inside of the casting 2, which separates the one casting from the other at the top, and closes the jaws 4 tightly about the rope, and the pawl 8 engaging with the teeth of the wheel 5 locks the said jaws or clamp until released by disengaging the said pawl.

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

The herein described cable grip, consisting of the castings 1 and 2 hinged together in the manner set forth, the shaft 11 arranged in one of the said castings, the eccentric 7 formed on said shaft, the wheel 5 attached to one end of the said shaft and pawl 8 pivoted to lock the same, and a suitable means for operating the said wheel, and to attach the grip to the under side of a vehicle, all arranged and combined for service substantially as and for the purpose described.

In testimony that I claim the foregoing I hereunto affix my signature this 30th day of January, A. D. 1893.

FRANK T. HOGG. [L. S.]

In presence of—

T. A. BOSLER,  
ANDREW FENWICK.