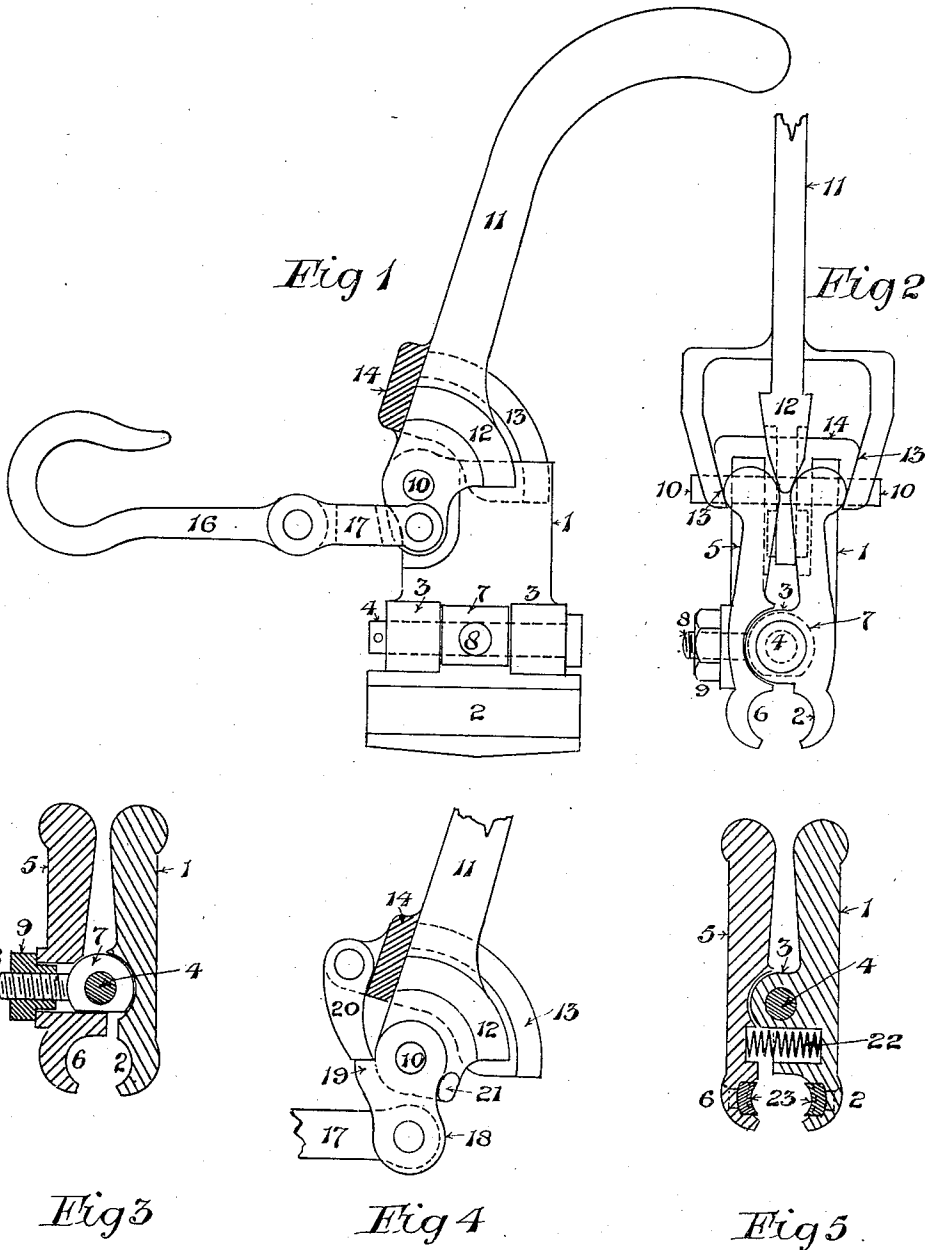


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S. A. BETTNEY, ADMINISTRATRIX.
CABLE CLIP.
APPLICATION FILED NOV. 8, 1912.

1,065,107.

Patented June 17, 1913.



Witnesses:
L. C. Brady
Geo. B. Pitts

Inventor:
Henry A. Bettney, deceased
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UNITED STATES PATENT OFFICE.

HENRY ARTHUR BETTNEY, DECEASED, LATE OF NOTTINGHAM, ENGLAND, BY SARAH ANN BETTNEY, ADMINISTRATRIX.

CABLE-CLIP.

1,065,107.

Specification of Letters Patent.

Patented June 17, 1913.

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To all whom it may concern:

Be it known that I, SARAH ANN BETTNEY, a subject of the King of Great Britain, and a resident of the city of Nottingham, in the
5 county of the said city, England, administratrix of the estate of HENRY ARTHUR BETTNEY, deceased, late a resident of the city of Nottingham, declare that he did invent new and useful Improvements in Cable-
10 Clips, of which the following is a specification.

This invention relates to improvements in haulage clips of the kind used in connection with wire ropes or cables and which are
15 readily attachable to and detachable from the cable, and to and from a vehicle; the object of the present invention being improvements in the construction and arrangement of the clip cheeks and jaws, improve-
20 ments in the means for and in the method of positively opening and closing the jaws, improvements in the means for and in the method of connecting the coupling hook to the clip handle whereby the pull of the ve-
25 hicle always tends to increase the grip of the jaws upon the cable, the provision of means whereby the size of the jaw opening can be adjusted to grip different sized cables and improvements in the general construction
30 and arrangement of the improved cable clip.

In the drawings:—Figure 1 is an elevation of the improved clip with the front cheek removed. Fig. 2 is an end elevation of the clip. Fig. 3 is a section of the cheeks
35 showing the arrangement for adjusting the size of the jaw opening. Fig. 4 is an elevation of part of the handle showing alternative means for connecting the handle to the coupling hook, and Fig. 5 is a section of the
40 cheeks showing alternative means for opening the jaws.

In the clip shown in Figs. 1, 2 and 3 the back cheek 1 has a jaw 2 and attached bearings 3 for an axle 4 which is parallel to the
45 jaw. The front cheek 5 has a jaw 6, which corresponds in shape and position to the back jaw, and it is connected to the axle 4 by a boss or collar 7 which is loosely mounted on the axle 4 and is provided with a screwed
50 pin 8 for a nut 9 which has a bearing in the cheek 5 and by which the distance between the jaws can be adjusted. The upper ends of the cheeks 1 and 5 are drilled to form loose bearings for an axle 10 which is at
55 right angles to the axle 4 and upon which

the handle 11 is mounted. The handle is provided with a cam or wedge 12 which operates between the upper edges of the cheeks and in such a manner that when the wedge is forced between the cheeks the jaws are
60 gripped upon the cable. The handle 11 is also provided with outside wedges 13 which are connected thereto by a cross bar 14 and are adapted to act upon the outside upper edges of the cheeks, whereby the jaws are
65 positively opened when the handle is raised and are held open when the clip is being applied to the cable. The handle projects below the axle 10 and forms a short lever 15 to which the coupling hook 16 is connected
70 by a link 17. The handle 11, the wedges 12 and 13, and the lever 15, are preferably made in one piece and the parts are so arranged that when the clip is attached to the cable and to the vehicle the pull acting through
75 the hook 16 tends to increase the pressure of the jaws upon the cable and prevent slipping thereon.

In the modification shown in Fig. 4 the handle 11, wedges 12 and 13 are similarly
80 arranged to the corresponding parts shown in Fig. 1 and the handle is fixed upon the axle 10 but there is no lever below the axle. Loosely mounted upon the axle 10 there is a pair of links 18, one on each side of the
85 handle 11, and connected to the coupling hook by the link 17. The links 18 are shaped to form a ratchet tooth 19 and there is a ratchet pawl 20 pivotally mounted on the cross bar 14 for engagement with such
90 tooth and by which the links 18 are held in contact with pins 21 on the handle boss. By means of this arrangement the handle 11 can be disconnected from the coupling
95 hook and the clip be liberated from the cable if from any cause the pull upon the hook is too great to be overcome by the attendant.

In the modification shown in Fig. 5 the bearings 3 for the axle are extended below
100 the axle and drilled to receive springs 22 by which the jaws are opened after the handle has been raised. This drawing also shows the jaws fitted with a renewable soft metal lining 23 which may be applied to any of
105 the jaws shown in the drawings for preventing damage being done to the cable and insuring a good grip upon the cable.

Claims.

1. In a cable clip the combination of a 110

pair of cheeks, jaws at the lower ends of such cheeks, an axle upon which the cheeks are mounted and arranged parallel to the jaws, an axle at right angles to the jaws, a
5 handle mounted upon such axle and a wedge carried by the handle for separating the cheeks and closing the jaws substantially as herein set forth.

2. In a cable clip the combination of a
10 pair of cheeks, jaws at the lower ends of such cheeks, an axle upon which the cheeks are mounted and arranged parallel to the jaws, bearings for the said axle, an axle at right angles to the jaws and carried by bear-
15 ings in the cheeks, a handle mounted upon such axle, a wedge carried by the handle and adapted to operate between the cheeks for closing the jaws, and wedges carried by the handle and adapted to operate upon the
20 outsides of the cheeks for opening the jaws substantially as herein set forth.

3. In a cable clip the combination of a pair of cheeks with jaws at the lower ends of such cheeks, an axle at right angles to
25 the cheeks, a handle upon such an axle, means carried by the handle for closing the jaws, other means carried by the handle for opening the jaws, a handle lever below the handle axle, a coupling hook, and connec-
30 tions between the coupling hook and the handle lever substantially as herein set forth.

4. In a cable clip the combination of a pair of cheeks, jaws upon such cheeks, an axle upon which such cheeks are mounted,
35 fixed bearing upon one cheek for such axle, an axle at right angles to the cheeks, a handle upon such axle, means upon the handle for closing the jaws, other means upon the handle for opening the jaws, means by

which the distance between the jaws can be
40 varied, the coupling hook, and connections between the said hook and the handle substantially as herein set forth.

5. In a cable clip the combination of a pair of cheeks with jaws, an axle upon
45 which the cheeks are mounted, an axle at right angles to the cheeks, a handle upon such axle, loose levers upon the same axle, ratchet mechanism for coupling the handle to the loose levers, means operated by the
50 handle for closing the jaws, other means for opening the jaws, and means for varying the jaw opening substantially as herein set forth.

6. In a cable clip the combination of a
55 pair of cheeks, jaws at the ends of such cheeks, fixed bearings upon one of the cheeks, an axle in such bearings, a loose boss upon the said axle and between the fixed bearings, a screwed pin upon the boss, and
60 a nut by which the other cheek is connected to the axle substantially as herein set forth.

7. In a cable clip the combination of a pair of cheeks, jaws at the lower ends of such cheeks, renewable linings in such jaws,
65 an axle upon which the cheeks are mounted, an axle at right angles to the cheeks, a handle upon such axle, means operated by the handle for closing the jaws and means by which the clip can be coupled to the ve-
70 hicle substantially as herein set forth.

SARAH ANN BETTNEY,
Administratrix of Henry Arthur Bettney,
deceased.

Witnesses:

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