W. O. V. WIEPRECHT.

CABLEWAY AND THE LIKE.

APPLICATION FILED MAY 10, 1912.

1,044,321. Patented Nov. 12, 1912.

Fig. 1

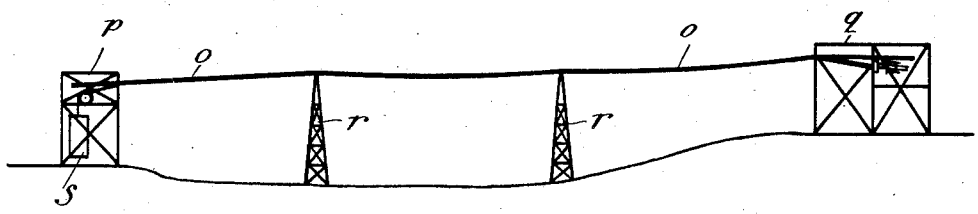


Fig. 2

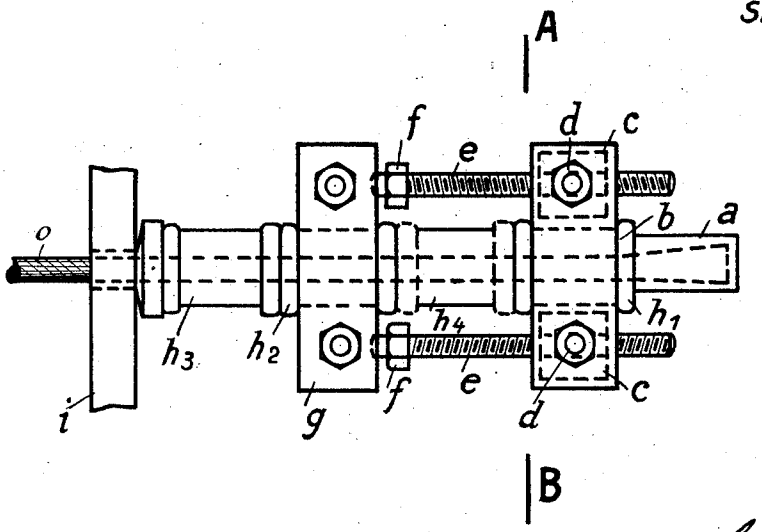
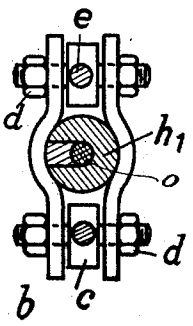


Fig. 3

SECTION A-B.



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CABLEWAY AND THE LIKE.

1,044,321. Specification of Letters Patent. Patented Nov. 12, 1912.

Application filed May 10, 1912. Serial No. 696,341.

To all whom it may concern:

Be it known that I, WALTER O. V. WIEPRECHT, residing at 7 Leibnizstrasse, Leipzig, Germany, citizen of the German Empire, have invented new and useful Improvements in and Relating to Cableways and the Like, of which the following is a full, clear, and exact description of my invention.

Take up appliance for cableways.—It not infrequently occurs on cableways that it is very difficult or even impossible to preserve the necessary free vertical play in the weight which serves to produce a constant tension in the main cables. The practice hitherto in such cases has been to find an expedient by erecting lofty and expensive towers or by excavating and blasting out pits or by other similar methods, because no reliable method was known of tightening the main cables at the end where they are anchored and guided horizontally or at an incline. The devices hitherto known for this purpose, such as screws or chains from which a link was removed from time to time, did not provide sufficient security, because foreign elements which were unsuitable for the transmission of such stresses had to take up the pulling strains instead of the ropes. Apart from this, the installment of such appliances proved either expensive, or the tightening process was troublesome and dangerous, and only possible with a great loss of time.

In the present invention a device has been brought out which is comparatively cheap and at the same time reliable in action and extremely handy for the process of taking up.

The main feature of the device is that the rope itself, or rather its end coupling, rests against a rigid foot bracket connected with the tower, the rope then being drawn out and sleeves of appropriate length inserted between the end coupling and the foot bracket. The arrangement beyond the foot bracket would, therefore, be the following:—The main cable is taken through the foot bracket and receives the intermediate sleeves which are inserted as necessity requires, and terminates finally into the end coupling, in this way forming a chain of compression members from the end coupling to the foot bracket.

In Figure 1. of the drawing an elevation of a cableway is shown with the take up appliance in question; in Figs. 2 and 3. the take up appliance is shown in detail.

Similar characters of reference designate corresponding parts throughout the several views.

Referring to Fig. 1 of the drawings, which illustrates an entire cableway, o designates the carrying cable which rests on supports r between two end stations p and q, and is weighted at the station p by a weight s and stretched at the station q by the tension or take up appliance in question.

As will be seen in Fig. 2. the thickened end of the cable o is fastened in an end coupling a which rests by means of the sleeve h^1 on the clamp b. The swivels c are fitted rotatively in the clamp by means of the bolts d. The swivels c have threaded holes for the screws e which are fitted with heads f and rest against the counter piece g. This is in two parts and inserted between the shoulders of the sleeve h^2 which rests on the foot bracket i by means of the ball shaped collar h^3. If the screws e are turned simultaneously the cable is drawn out and a free space results between the sleeves h^1 and h^2, into which a new sleeve h^4, constructed in two parts can be inserted. The screws are then released so that the pressure is transferred on to the newly inserted sleeve. If it is desired to tighten up still more, the clamp g is put on the sleeve h^4 whereupon the process is repeated.

The device can, of course, be so employed that the take up appliance and the tension weight are placed at the same point, for instance, by combining the take up appliance with the tension weight, or by attaching the weight on an inclined oscillating support and the main cable passing horizontally beyond the point of attachment on the support. The take up is equally applicable for such cableways as have no counterweight at all.

Having now particularly described and ascertained the nature of my said invention and in what manner the same is to be performed I declare that what I claim is:—

1. In a device for taking up the slack of the carrying ropes on cableways, an end coupling fitted to the end of the rope and intermediate sleeves to transmit the pressure to

the tower structure, the number of which depends on the amount the rope is to be shortened.

2. In a device for taking up the slack of the carrying ropes on cableways, an end coupling fitted to the end of the rope and intermediate sleeves to transmit the pressure to the tower structure, and means for creating a space between two of the sleeves which transmit the pressure in such a manner as to allow room for a new sleeve.

3. In a device for taking up the slack of the carrying ropes on cableways, an end coupling fitted to the end of the rope and intermediate sleeves to transmit the pressure to the tower structure, cross pieces mounted on two of the sleeves which transmit the pressure, and screw bolts for creating space between the sleeves.

WALTER O. V. WIEPRECHT.

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Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."