

1,035,668.

2 SHEETS--SHEET 1.



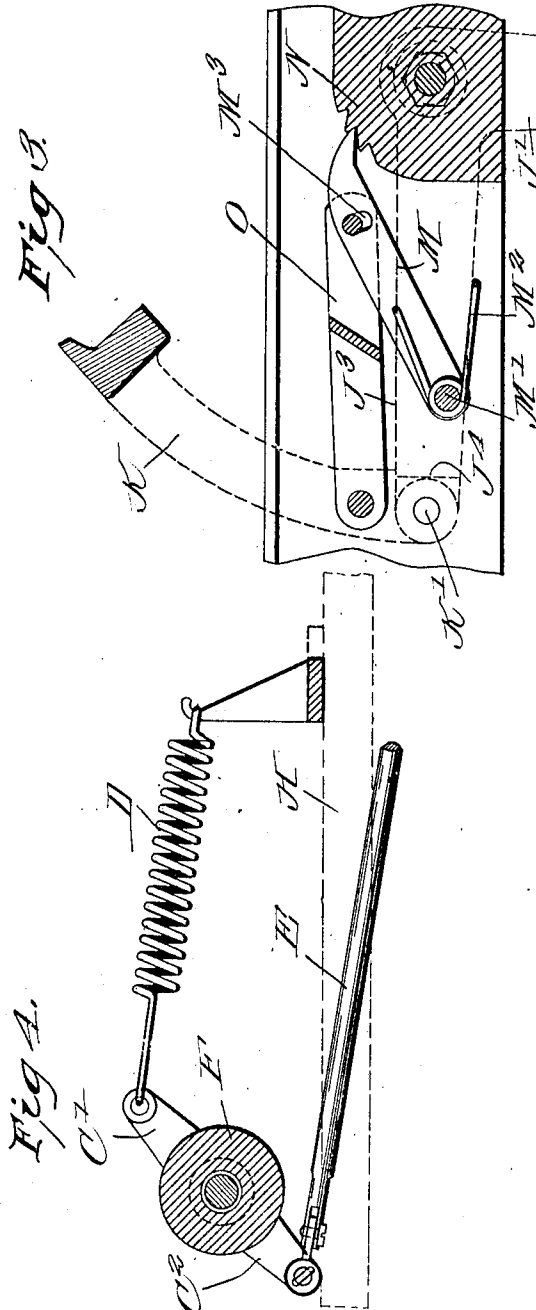
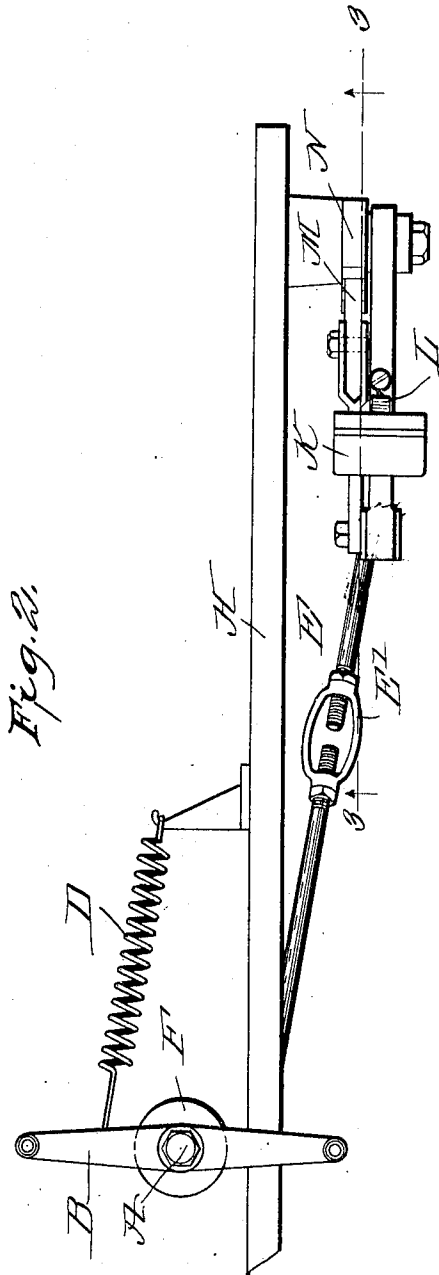
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HEADLIGHT.
APPLICATION FILED JAN. 2, 1912.

1,035,668.

Patented Aug. 13, 1912.

2 SHEETS-SHEET 2.



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UNITED STATES PATENT OFFICE.

ED LEE WICKETT, OF KEITHSBURG, ILLINOIS.

HEADLIGHT.

1,035,668.

Specification of Letters Patent.

Patented Aug. 13, 1912.

Application filed January 2, 1912. Serial No. 668,854.

To all whom it may concern:

Be it known that I, ED L. WICKETT, a citizen of the United States, and a resident of Keithsburg, in the county of Mercer and State of Illinois, have invented certain new and useful Improvements in Headlights, of which the following is a specification.

This invention is an improvement in head light devices for use on automobiles and the like and has for objects certain improvements and consists in the novel constructions and combinations of parts as will be hereinafter described and claimed.

In the drawings Figure 1 is a side view of my invention. Fig. 2 is a top plan view thereof. Fig. 3 is a detail vertical section on about line 3--3 of Fig. 2. Fig. 4 is a detail section on about line 4--4 of Fig. 1. Fig. 5 is a detail side view of the bracket post, the light supporting shaft and the cone bearings being indicated in dotted lines therein.

By my invention I seek to provide the light on the frame of the car in such manner as to permit the adjustment of the light to cast its rays either straight forward or at any desired angle either to the right or to the left as the case may be, whether the car is moving or still.

In the construction shown, the lamp shaft A has at its upper end a fork B on which the lamp which may be of any desired form, is mounted. At its lower end, the shaft A has a transverse cross bar C which forms at one end a lever arm C' to which the spring D is connected for rocking the shaft A in one direction, and at its other end the lever arm C'' to which is connected the front end of the pitman E which pitman may preferably be made in sections as shown in Figs. 1 and 2 connected by a turn-buckle E' by which the lamp may be properly set to face directly forward when in its normal position. The shaft A is mounted in the bracket post F whose bracket G may be secured to the frame H of the machine in any suitable manner and I prefer to mount the shaft on ball bearings as indicated in Fig. 5 with the upper cone fixed and the lower cone adjustable and supplied with a lock nut I as will be understood from Figs. 1 and 5 of the drawings.

At its rear end the pitman E connects with the depending arm J' of a bell-crank lever J pivoted at J² and having its other arm J³ provided with a pivoted treadle K,

such treadle being pivoted at K' and pressed by a spring L against a shoulder J⁴ on the arm J³ of the lever J when the parts are in the position shown in Fig. 1. The spring L presses the treadle K back to the position shown in Fig. 1 in which position of parts the treadle may be depressed to rock the lever J to pull upon the pitman E. The lever J may be held in any suitable position by a pawl M on the arm J³ engaging with a rack segment N fixed relatively to the lever J and preferably secured upon the frame H of the car. This pawl M is pivoted at M' and is pressed normally into engagement with the rack segment by a spring M². The pawl M also has near its point end a slot M³ by which a movable connection is effected between the said pawl and a link O which connects the pawl with the treadle K, the link O connecting with the treadle K above the pivot K' of said treadle. When the lever K is depressed to rock the lever J, it does not operate the pawl M but if the treadle K be pushed forward at its upper end, it will release the pawl O from engagement with the rack segment N to permit the readjustment of the lever J to its normal position after the same has been rocked by the depression of the treadle K. It will be noticed that the arrangement of the treadle K in connection with the lever J, segment N and pawl M is compact and is such that the accidental release of the pawl M is practically obviated.

In operation, the treadle may be operated to turn the lamp up to 45°, to the left, and the tension spring D may operate to turn the lamp in a corresponding degree to the right and to readjust the lamp to its normal position, as well as to hold all parts firmly together in such manner as to render the device noiseless in operation. The spring L holds the treadle firmly back against the shoulder J⁴ of the lever arm J³, while the spring M² presses the pawl into a firm engagement with the rack segment except when the said pawl is released by the operation of the treadle and the link O as before described.

I claim:

1. The improvement in head light apparatus, substantially as herein described, comprising a bracket post, a lamp supporting shaft therein and provided at its upper end with a yoke for supporting a head light and at its lower end with a cross bar forming

oppositely projecting arms, a spring secured to one of said arms, a pitman secured to the other one of said arms, a bell-crank lever having one arm connected with said pitman, a treadle pivoted to the other arm of said lever, a stop limiting the motion of said treadle in one direction, a spring pressing said treadle into engagement with said stop, a rack segment fixed relatively to the said lever, a pawl pivoted to the treadle arm of the lever and engaging with the rack segment, a spring pressing the pawl into such engagement and a link connecting the pawl with the treadle whereby the pawl may be released by the rocking of the treadle on its pivotal connection with its lever arm, all substantially as and for the purposes set forth.

2. In a head light apparatus, substantially as described, the combination with a

movable support for the lamp, of a bell-crank lever having one arm connected with said support, a treadle pivoted to the other arm of said lever, the latter having a stop limiting the motion of said treadle in one direction, a spring pressing the treadle into engagement with said stop, a rack segment fixed relatively to the said lever, a pawl pivoted to the treadle arm of the lever and engaging with the rack segment, a spring pressing the pawl into such engagement and a link connecting the pawl with the treadle whereby the pawl may be released by the rocking of the treadle on its pivotal connection with its lever arm.

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Witnesses:

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