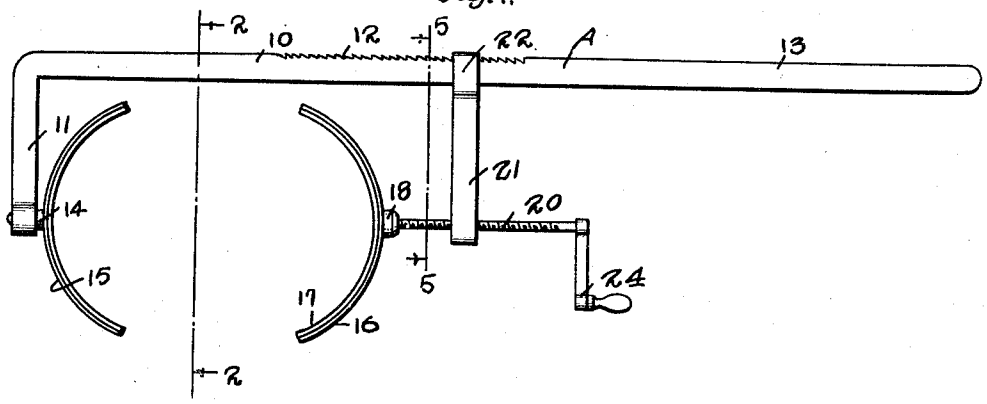
March 15, 1927. 1,620,739

C. H. PRESHO

HEADLIGHT RIM WRENCH

Filed Aug. 24. 1925

Fig. 1.



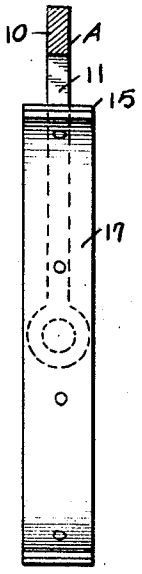


Fig. 2.

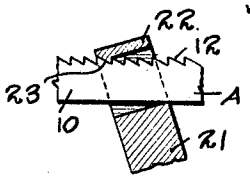
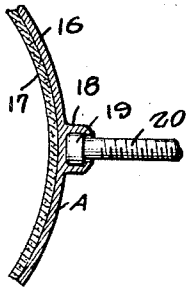


Fig. 3.

Fig. 4.



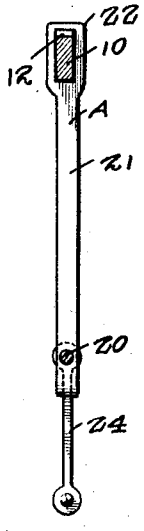


Fig. 5

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Patented Mar. 15, 1927. 1,620,739

UNITED STATES PATENT OFFICE.

CHARLES H. PRESHO, OF ALMA, NEBRASKA.

HEADLIGHT-RIM WRENCH.

Application filed August 24, 1925. Serial No. 52,046.

This invention appertains to tools and the primary object of the invention is to provide a novel tool for facilitating the removing and placing on the rims of headlights.

Another object of the invention is to provide an improved wrench for facilitating the placing on and the removing of rims from automobile headlights, which can be easily adjusted and which will firmly grip the rims to permit the ready turning thereof without injury thereto.

A further object of the invention is to provide a novel headlight rim wrench embodying a pair of arcuate gripping jaws having padded faces for preventing injury to the headlight rims, and a shank carrying one of the jaws at the outer end thereof and a removable jaw at a point intermediate the ends thereof, novel means being provided for insuring the proper adjustment of the inner jaw to facilitate the gripping of various sized headlight rims.

A still further object of the invention is to provide a wrench for automobile headlights of the above character which will be durable and efficient in use, one that will be simple and easy to manufacture and one which can be placed upon the market at a small cost.

With these and other objects in view, the invention consists in the novel construction, arrangement and formation of parts, as will be hereinafter more specifically described, claimed, and illustrated in the accompanying drawings, in which drawings:

Figure 1 is a side elevation of the improved wrench,

Figure 2 is a section through the same taken on the line 2—2 of Figure 1 looking in the direction of the arrows,

Figure 3 is an enlarged detail section illustrating the means of associating the movable jaw with the shank wrench,

Figure 4 is a section through the movable jaw illustrating the means of connecting the same with the adjusting shank, and

Figure 5 is a detail section taken on the line 5—5 of Figure 1 looking in the direction of the arrows illustrating the means of mounting the hanger of the movable jaw on the shank,

Referring to the drawings in detail, wherein similar reference characters designate corresponding parts throughout the several views, the letter A generally indicates the improved wrench, which comprises an elongated shank 10 having formed thereon the right angularly extending arm 11 at its outer end. The upper edge of the shank 10 is provided with rack teeth 12, for a purpose, which will be hereinafter more fully described. The inner end of the shank constitutes a handle 13 for the manipulation thereof, as will be also hereinafter more fully described. The outer end of the arm 11 has bolted or otherwise secured thereto, as at 14 an arcuate rigid jaw 15 for engaging one side of a headlight rim. The opposite side of the headlight rim is adapted to be engaged by an arcuate companion movable jaw 16. The inner faces of the jaws 15 and 16 are preferably lined with a suitable fabric such as brake lining 17 in order to obtain a firm grip upon the headlight rim and to prevent injury thereto. The outer face of the movable jaw at the axial center thereof carries a socket 18 for receiving a head 19 of an adjusting screw 20. This adjusting screw 20 is threaded into a suitable nut or threaded bore formed in the outer end of the depending hanger or arm 21. The opposite end of the arm or hanger 21 is provided with a loop 22 for slidably receiving the shank 10 of the wrench and the inner face of the upper wall of the loop 22 is provided with a rack tooth 23 or dog for engaging the rack teeth 12 of the shank.

In order to facilitate the rotation of the adjusting screw 20, the end of the same remote from the head 19 is provided with a hand crank 24.

In use of the improved wrench, the handle 13 is grasped, and the jaws 15 and 16 are placed on the opposite sides of the headlight rim and the hanger or arm 21 is raised so as to disengage the teeth 23 from the rack teeth 12 and the hanger and the movable jaw 16 is moved forwardly until the same engages the headlight rim. The screw 20 is now turned by means of the hand crank 24 until the jaws 15 and 16 are brought into gripping contact with the rim and by operating the handle 13, the headlight rim can be readily turned so as to facilitate the removal thereof or the placing on of the same on the headlights. The handle 13 will be disposed tangentially to the headlight rim and thus insure the proper leverage on the rim being had.

Changes in details may be made without departing from the spirit or scope of this invention, but:

What I claim as new is:

1. A headlight rim wrench comprising an elongated shank, an arm extending at right angles from one end of the shank, an arcuate jaw rigidly secured to the arm, a hanger slidably mounted upon the shank for movement toward and away from the rigid jaw, means for holding the hanger in an adjusted position on the shank, an adjusting screw carried by the hanger, and a movable jaw carried by said adjusting screw, the jaws being arranged at one side of the shank and laterally thereof and in the same plane therewith, whereby the shank will be disposed tangentially to the headlight rim, when the wrench is in use.

2. A headlight rim wrench comprising an elongated shank, a right angularly disposed arm formed on one end of the shank, a handle formed on the opposite end of the shank, the upper edge of the shank being provided with ratchet teeth, a rigid jaw of arcuate formation, an adjustable jaw of arcuate formation, means rigidly securing the first mentioned jaw to the arm, a movable arm, a loop formed on the inner end of the movable arm slidably receiving the shank, a tooth formed on the loop for engaging the rack teeth of the shank for holding the movable arm in an adjusted position, the outer end of the movable arm being provided with a threaded bore, an adjusting screw threaded in the bore, a head formed on the inner end of the adjusting screw, a socket carried by the outer face of the movable jaw for rotatably receiving the head, and a hand crank carried by the outer end of the adjusting screw.

3. A headlight rim wrench comprising a shank, an arm carried by the shank, an arcuate jaw connected with the arm, a hanger slidably mounted upon the shank for movement toward and away from the jaw, means for holding the hanger in an adjusted position on the shank, a movable jaw, means adjustably connecting the movable jaw with the hanger, the jaws being arranged at one side of the shank and laterally thereof.

In testimony whereof I affix my signature.

CHARLES H. PRESHO.