

A. MONSEN.
BRAKE ADJUSTING DEVICE.
APPLICATION FILED MAR. 11, 1918.

1,296,835.

Patented Mar. 11, 1919.

Fig. 1.

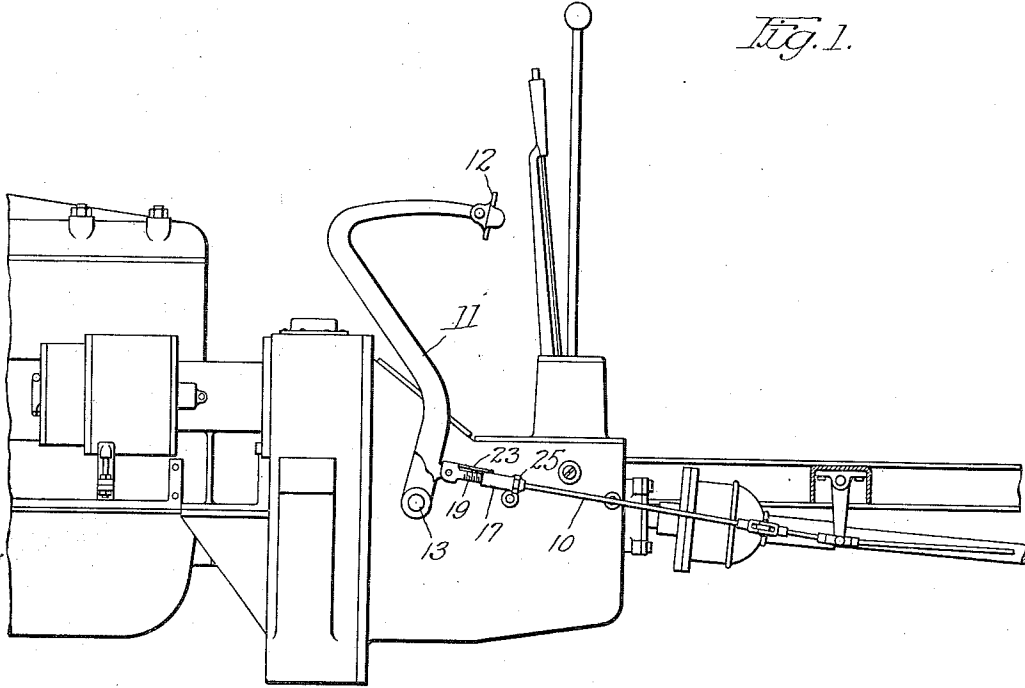


Fig. 2.

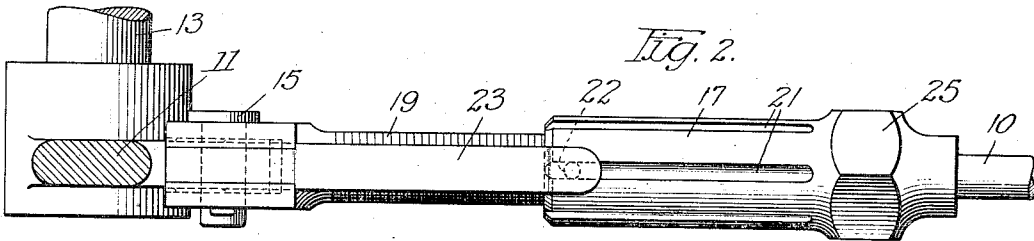


Fig. 3.

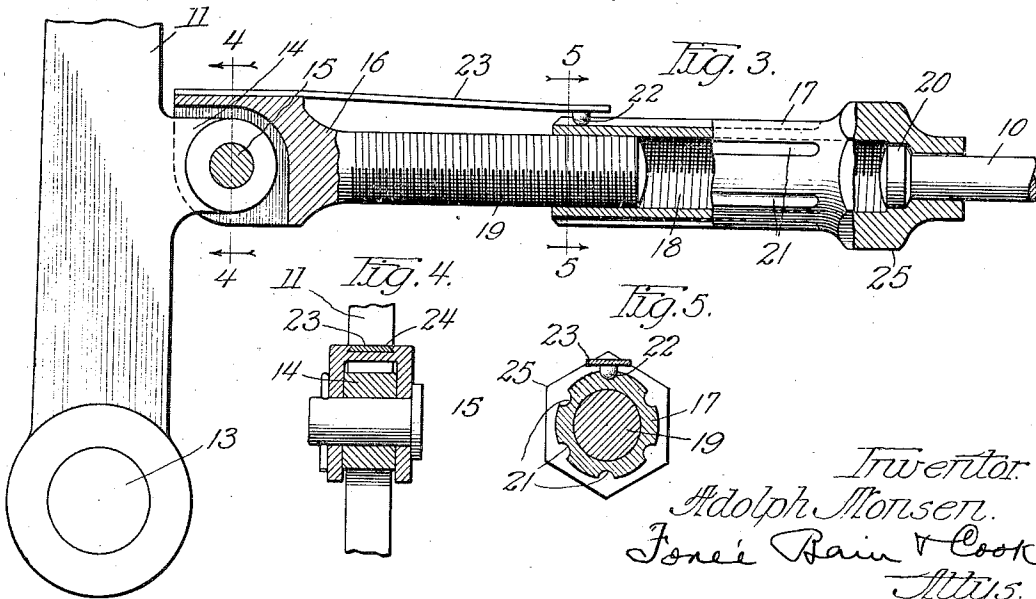


Fig. 4.

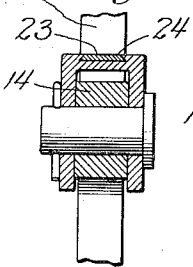
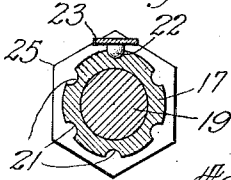


Fig. 5.



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UNITED STATES PATENT OFFICE.

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BRAKE-ADJUSTING DEVICE.

1,296,835.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, ADOLPH MONSEN, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Brake-Adjusting Devices, of which the following is a specification.

My invention relates to improvements in devices for adjusting the effective length of tension rods and has especial reference to devices of this kind for the purpose of adjusting the tension rod of brakes or the like, in automobile structures.

One of the objects of my invention is to provide a device of the character described that is easily adjustable without the use of special tools for the purpose and which automatically locks itself in adjusted position.

Another object of my invention is to provide a rod tensioning device which can be operated by grasping the major portion thereof in the hand and turning it, with respect to the other portions, and of the rod, and which is provided with an effective lock automatically operable when one of the major portions of the device is rotated with respect to the other portion, and which will hold the parts in their adjusted position, without permitting further relative rotation of either of the parts, in either direction.

Other, further and more specific objects of my invention will become readily apparent to persons skilled in the art, from a consideration of the following description when taken in conjunction with the drawings, wherein:—

Figure 1 shows an outline of an automobile structure with my tension rod adjusting device applied to the brake rod of the vehicle.

Fig. 2 is an enlarged plan view of the device.

Fig. 3 is a side elevation of the same, partly in section.

Fig. 4 is a section taken on line 4—4 of Fig. 3.

Fig. 5 is a section taken on line 5—5 of Fig. 3.

In all the views the same reference characters are employed to indicate similar parts.

In automobile structures, the brake rod, through the instrumentality of which move-

ment is transmitted from the foot lever to the brake mechanism, owing to strain, wear or variation in temperature, frequently requires adjustment of its linear dimensions in order that the shoe, or the foot lever, employed for applying the brake, may be located in a convenient position to be readily accessible for easy application of pressure by the operator's foot.

In the exemplification illustrated in the accompanying drawings, 10 is a rod connected to suitable mechanism in the rear of the vehicle, preferably to a brake arm, not shown, and 11 is a foot lever provided with a foot or shoe terminal 12. The lever 11 is pivoted, as at 13, and is provided with a lateral projection 14 for pivotal connection, as at 15, with a threaded member 16 of my adjusting device. Another member 17 is provided with a threaded bore 18 to receive the threaded stem 19 of the member 16. The rod 10 is provided with a head on its inner end, as at 20, which is received in the threaded bore 18, the communicating bore in the end of the member 17 is just sufficiently large for the body portion of the rod to pass through and to hold the head 20 within the bore. The member 17, however, may be rotated upon the rod 10 without turning the latter. The member 17 is provided with a series of grooves 21, in its outer surface, within which a projection 22, from a spring impelled dog 23 is received, to prevent rotation of the member 17, except when some force is applied for producing its rotation. The dog 23 is dove-tailed into the enlarged end or head of the member 16, as at 24, and suitably held in place therein. To more securely hold the rotatable member 17 in place, by means of the projection 22, the latter may be made so that it will not move out of the groove in which it may be located by the mere turning of the member 17, in which event the dog 23 may be raised by one hand, or by any other convenient means while the member 17 is being rotated, whereupon, when released, the resilient action of the dog will cause the member 22 to enter the groove 21 that may, at the time, be located in the same vertical plane, to hold the member 17 against accidental rotation. The rear end of the member 17 may be made, if desired, hexagonal in shape as shown at 25, to receive a wrench so that in the event that

the resistance to its rotation is greater than may be accomplished by the operator's hand, the wrench may be applied for this purpose.

The value of the invention is the convenience and certainty of its operation and dependence and integrity in its use.

While I have herein shown a single embodiment of my invention, for the purpose of clear disclosure, it is manifest that some changes may be made in the general arrangement and configuration of the parts within the scope of the appended claims.

Having described my invention, what I claim is:—

1. A rod tensioning device comprising a sleeve having two axial bores, one of which is threaded and the other of which is adapted to receive the headed end of a rod upon which the sleeve is rotatable, said sleeve having a series of grooves in its outer surface, another member adapted for pivotal but non-rotative connection to a support and having a threaded stem for inclusion in the threaded bore of the sleeve, and a dog connected to said other member to engage one of said grooves on said sleeve to lock the sleeve in selected rotary position relative to said other member.

2. A rod tensioning device comprising a sleeve having two axial bores, the larger

of which is threaded and the smaller of which is to inclose the end of a headed rod upon which the sleeve is rotatable, said sleeve having a series of grooves on its outer surface substantially coextensive with the interior threaded part; another member, comprising a head, adapted for pivotal connection to a support and having a threaded stem extending therefrom for inclusion in said sleeve, and a spring impelled dog, comprising a blade secured to said head and extending toward the end of said stem and having a projection to engage said grooves to lock the sleeve in selected rotary position.

3. A tension device for a rod comprising a member having a non-rotatable head and a threaded stem extending therefrom; a threaded sleeve to receive said stem and having longitudinal grooves in its outside surface and an angular wrench-engaging part; a rod provided with a head having swivel connection with said sleeve and a spring-impelled dog secured to said head, having a projection extending into a selected groove of the sleeve to prevent the latter from rotating with respect to the stem.

In testimony whereof I hereunto set my hand.

ADOLPH MONSEN.