

No. 849,642.

PATENTED APR. 9, 1907.

W. W. SLEEMAN.
CONNECTING ROD HEAD.
APPLICATION FILED MAY 3, 1906.

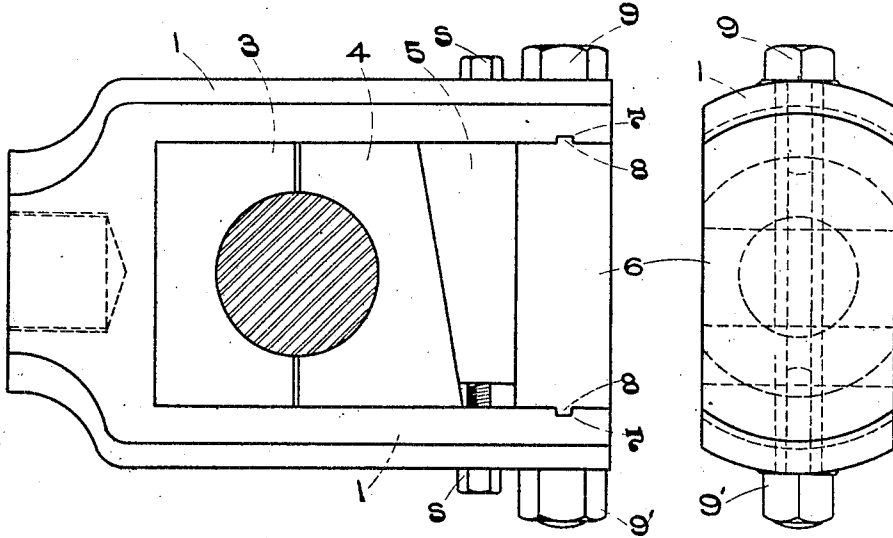


FIG. 1.

FIG. 2.

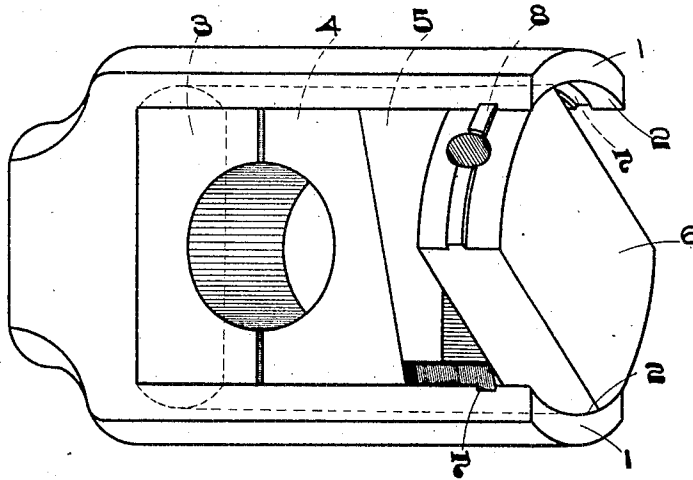


FIG. 3.

Witnesses

Gilson Schaffer
Emory G. Nixie

By

Inventor
WILLIAM W. SLEEMAN
Attorney
Edward R. Amman

UNITED STATES PATENT OFFICE.

WILLIAM WATTS SLEEMAN, OF OIL CITY, PENNSYLVANIA.

CONNECTING-ROD HEAD.

No. 849,642.

Specification of Letters Patent.

Patented April 9, 1907.

Application filed May 3, 1906. Serial No. 314,984.

To all whom it may concern:

Be it known that I, WILLIAM WATTS SLEEMAN, a citizen of the United States, residing at Oil City, in the county of Venango and State of Pennsylvania, have invented certain new and useful Improvements in Connecting-Rod Heads, of which the following is a specification, reference being had therein to the accompanying drawings.

My invention relates to improvements in connecting-rod heads, the construction of which is herein fully set forth and illustrated by the accompanying drawings, which form a part hereof, and in which—

Figure 1 is a side elevation. Fig. 2 is an end elevation. Fig. 3 is a perspective view of the head partially disassembled.

The object of my invention is to provide a connecting-rod head for engines and like machinery which may be more easily and cheaply machined and assembled than any of the present styles of connecting-rod and at the same time retain all the desirable features as to strength, appearance, and finish that any of the present styles of head possess.

My construction is as follows:

The head consists, essentially, of the jaws 1, which are rigidly connected at the rear and open at the front end. The inner opposing faces 2 2 of said jaws are concave or grooved longitudinally, said grooves preferably being portions of a true circle, so that said jaw may be bored out and finished with a drill or on a lathe, boring-mill, or any like machine-tool.

The upper and lower or opposite faces of the brasses 3 4 are made convex, which faces are also a portion of a true circle to conform to the concavity of the jaws between which they are inserted from the open end.

The forward face of the front brass 4 is made wedge-shaped in the usual manner, and a wedge 5 of the usual form is provided for adjusting said front brass, the adjusting-screws 8 being for this purpose.

The front or open end of the head is closed

by means of the head-block 6, the upper and lower faces of which are convex in conformity to the concavity of the inner faces 2 of the jaws 1. In the concave face of each of said jaws, near to the open end, is formed a transverse groove 7 7, which receives the tongue 8, formed upon the periphery of the head-block. Said block 6 is inserted between or removed from said jaws by giving the same a partial rotation or a lateral movement, as shown in Fig. 3, tongues 8 occupying grooves 7.

A bolt 9 is inserted through the jaws and head-block, and when the nut 9' is firmly screwed up the various elements of the head are held firmly together. The tongue 8 bears all the strain which is exerted upon the head-block by the action of the wedge 5 or the stress due to power exerted upon the wrist-pin. Hence any shear upon the bolt 9 is avoided, the only strain upon said bolt being that of tension due to any tendency of jaws 1 to spread apart.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

In a connecting-rod head, jaws having longitudinally and transversely grooved opposing faces, brasses adapted to occupy said longitudinal grooves, the forward face of the front brass being beveled for the purpose set forth, a head-block having rounded ends and a tongue thereon adapted to occupy said transverse grooves, said head-block being insertible between said jaws by a lateral or rotary movement, means of securing said block in position, a wedge positioned between said brasses and said block, and means for adjusting said wedge.

In testimony whereof I affix my signature in presence of two witnesses.

WILLIAM WATTS SLEEMAN.

Witnesses:

E. R. INMAN,
L. S. INMAN.