

May 8, 1928.

1,668,976

H. E. PEET ET AL

CROSSHEAD

Filed Dec. 10. 1925

Fig. 1.

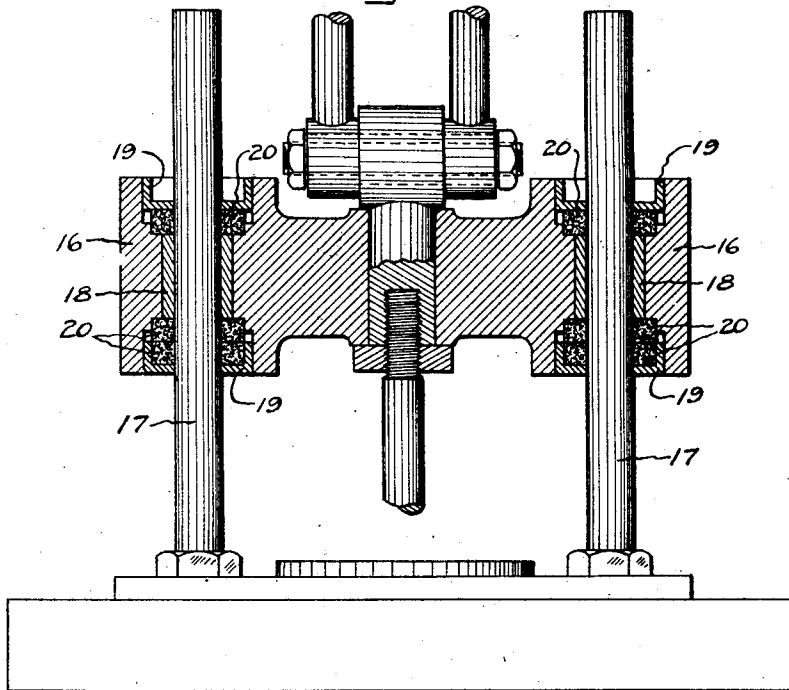
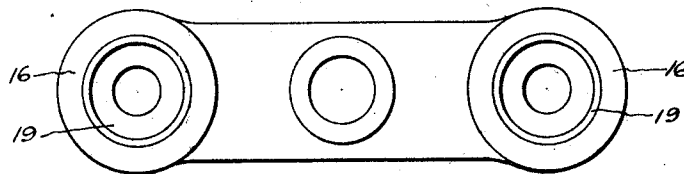


Fig. 2.



INVENTORS

HARRY E. PEET

CHESTER B. NOYES

BY

George F. Ballou

ATTORNEY

UNITED STATES PATENT OFFICE.

HARRY E. PEET AND CHESTER B. NOYES, OF ORANGE COVE, CALIFORNIA.

CROSSHEAD.

Application filed December 10, 1925. Serial No. 74,644.

This invention relates to cross-heads used on reciprocating pumps and engines for the purpose of guiding and stabilizing the piston rods.

5 An object of the invention is to provide in a cross-head, used on reciprocating pumps and engines, an improved means for packing the bearing surfaces therein against grit and foreign substances, and thus eliminate
10 the excessive friction and wear caused by the grit entering said cross-head and rubbing on the guide rods.

A further object of the invention is the provision of improved means to simplify the
15 oiling of the guide rods and thereby obtain higher efficiency, also saving much time and labor by eliminating the necessity for constantly oiling said guide rods.

In the drawings:

20 Figure 1 is a central longitudinal sectional view of one type of cross-head involving the invention.

Figure 2 is a top plan of the invention.

25 According to the construction shown, the numeral 16 represents a cross-head substantially fastened to a piston rod 15 and pivotally secured to connecting rods 14. The numeral 17 represents stationary guide rods that extend through the cross-head and
30 adapted to be slidable therein for the purpose of guiding and stabilizing the piston rod.

35 As hereinbefore stated, the object of this invention is the providing of improved means for packing the bearing surfaces in the cross-head and on the guide rods against grit and also the provision made to allow for the proper lubrication of same.

40 A preferred type of such means consists of providing a cup shaped cap 19, having a hole therein through which the guide rod extends, the said cap being tightly mounted in the cross-head 16, as illustrated in Figure 1, with the containing portion thereof facing
45 upward, thus serving as a means for

holding the packing 20 in place and also providing a container for retaining some of the lubricant used for lubricating the guide rods. The numeral 18 represents a liner substantially mounted in the cross-head, and
50 may be made of bronze or babbitt or any metal that will form the proper bearing surface for said guide rods. The packing 20 is preferably made of fibrous material that is adapted to retain lubricant, and is mounted
55 in the cross-head as illustrated, having a snug fit around the guide rods, thereby preventing grit from coming into contact with the rubbing surfaces involved, thus eliminating excessive friction and wear and also
60 providing a simple and improved means for lubricating the cross-head and guide rods.

Having thus described and illustrated a certain form of construction and arrangement of parts pertaining to the invention, it
65 is desired to include in this application for Letters Patent all that comes within the range of the invention as set forth in the claim hereinafter mentioned.

What is claimed:

70 A cross-head for a reciprocating pump or engine, having in combination mounted therein, a plurality of bearing liners adapted to be slidable on vertical rods that extend through the cross-head; packing adapted to
75 absorb lubricant and to fit closely around said vertical rods; said packing being mounted in the cross-head above and below said bearing liners; a plurality of cup shaped caps mounted in the cross-head and
80 adapted to hold the packing in position therein; said cup shaped caps facing upwardly when the cross-head is in its working position on the vertical rods, substantially as described.

85 In testimony whereof, we hereunto affix our signatures.

HARRY E. PEET.
CHESTER B. NOYES.