April 16, 1940. G. F. LAMBERTH 2,197,698

SNATCH BLOCK

Filed Dec. 23, 1937

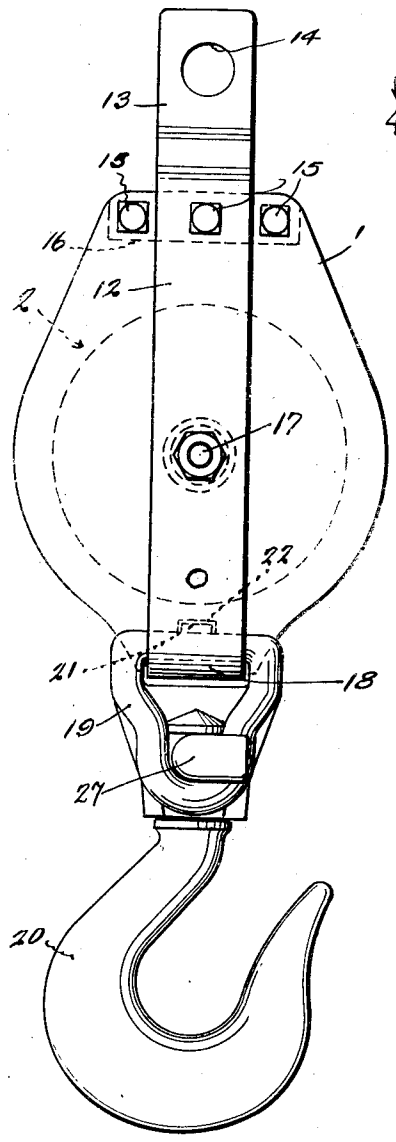


Fig. 1.

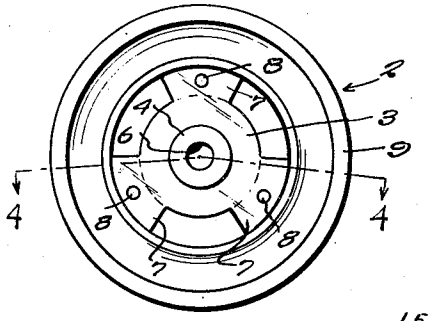


Fig. 3.

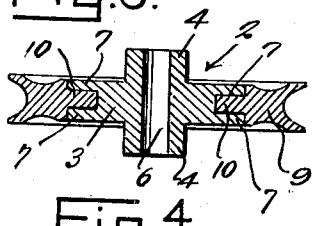


Fig. 4.

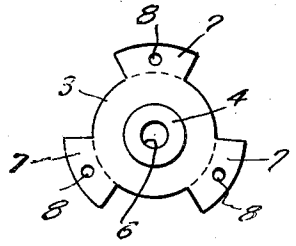


Fig. 5.

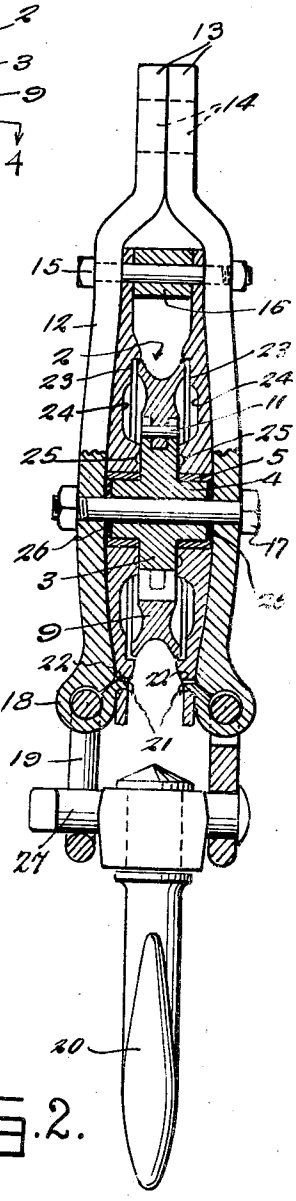


Fig. 2.

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UNITED STATES PATENT OFFICE

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SNATCH BLOCK

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Application December 23, 1937, Serial No. 181,403

1 Claim. (Cl. 254—193)

The present invention relates to new and useful improvements in snatch blocks and has for one of its important objects to provide, in a manner as hereinafter set forth, a device of this character embodying novel means for mounting the pulley wheel in position.

Another very important object of the invention is to provide a snatch block of the aforementioned character comprising a pulley wheel of novel construction.

Other objects of the invention are to provide a snach block of the character described which will be comparatively simple in construction, strong, durable, highly efficient and reliable in use, compact, light in weight and which may be manufactured at low cost.

All of the foregoing and still further objects and advantages of the invention will become apparent from a study of the following specification, taken in connection with the accompanying drawing wherein like characters of reference designate corresponding parts throughout the several views, and wherein:

Figure 1 is a view in side elevation of a snatch block construction in accordance with the present invention.

Figure 2 is a view partially in front elevation and partially in vertical section.

Figure 3 is a detail view in side elevation of the pulley wheel.

Figure 4 is a sectional view, taken substantially on the line 4—4 of Fig. 3.

Figure 5 is a detail view in side elevation of the inner portion or member of the pulley wheel.

Referring now to the drawing in detail, it will be seen that the embodiment of the invention which has been illustrated comprises a pair of metallic side plates 1 of the configuration shown in Fig. 1 of the drawing. Mounted for rotation between the side plates 1 is a pulley wheel which is designated generally by the reference numeral 2. As illustrated to advantage in Figs. 3 to 5, inclusive, of the drawing, the pulley wheel 2 comprises an inner member 3 from the opposite sides of which trunnions 4 project. The trunnions 4 are journalled in suitable bearings 5 which are mounted in aligned openings provided therefor in the side plates 1. As shown in Fig. 2 of the drawing, the side plates 1 are substantially convex. A transverse opening 6 extends centrally through the inner pulley member 3. Projecting from the periphery of the member 3 are pairs of spaced, substantially segmental ears or the like 7 having openings 8 therein. Removably mounted on the member 3 is a peripherally grooved rim 9. On the inner periphery of the rim 9 are spaced, substantially segmental tongues or the like 10 which are engageable between the pairs of lugs 7 and which have openings therein for alignment with the openings 8 for the reception of removable securing pins 11.

Rigidly secured in any suitable manner, as by welding, on the outer sides of the plates 1 are metallic straps 12. The upper end portions of the strap 12 are inwardly offset and abut each other, as at 13, and are welded together. Aligned openings 14 are provided in the upper end portions 13 of the straps 12. Bolts 15 secure the upper end portions of the side plates 1 together. The bolts 15 pass through a spacing block 16 between the upper portions of the plates 1. It will be observed that one of the bolts 15 also passes through the straps 12. A center bolt 17 extends through the plates 1 and the straps 12, said center bolt passing through the opening 6 in the member 3.

At their lower ends, the straps 12 are reduced and terminate in split eyes or the like 18. Mounted in the eyes 18 and depending therefrom are loops 19. Mounted in the loops 19 is a crosshead 27 from which is suspended a swivelled hook 20. The split eyes or the like 18 terminate in inwardly extending lips 21 which are engaged in slots 22 which are provided therefor in the lower portions of the side plates 1.

The inner sides of the plates 1 are recessed, as at 23, for the reception of the side portions of the pulley wheel 2. The construction is such as to prevent the cable from jumping the pulley wheel and lodging between said pulley wheel and the side plates. Inwardly of the recesses 23, the plates 1 are further recessed, as at 24, to provide ample clearance for the wheel 2. Inwardly of the recesses 24, the inner faces of the side plates 1 are provided with circular grooves 25 for the reception of felt rings or washers (not shown) for retaining a lubricant and for preventing the passage of dirt, grit, etc., to the bearings. Washers 26 of felt or other suitable material are provided in the bearings 5 between the outer ends of the trunnions 4 and the straps 12 for preventing the passage of dirt at these points.

It will thus be seen that a snatch block has been provided wherein all of the load is carried by the side plates 1 rather than by the center bolt 17, as at present. Further, by reason of this mounting, wobbling of the pulley wheel 2 is materially reduced or substantially eliminated. Wear is also reduced to a minimum. The bushings or bearings 5 may be expeditiously removed

and replaced when necessary or desired. Still further, should wear occur on the inner member 3 of the pulley wheel, said member may be replaced and the use of the rim 9 continued.

It is believed that the many advantages of a snatch block constructed in accordance with the present invention will be readily understood and although a preferred embodiment of the device is as illustrated and described, it is to be understood that changes in the details of construction and in the combination and arrangement of parts may be resorted to which will fall with the scope of the invention as claimed.

What is claimed is:

A snatch block comprising a pair of side plates having elongated apertures at one end thereof, a pulley wheel rotatably mounted between said side plates, metallic suspension straps fixed on the outer sides of the side plates, said straps having reduced ends forming lips at the said end of said side plates, a crosshead, a hook swivelly mounted in said crosshead, loops suspending said crosshead, said reduced ends of said straps turned to form split eyes for suspending the loops, said lips projecting through the apertures of the side plates and engaging their inner sides for anchoring said straps.

GEORGE F. LAMBERTH.