No. 834,537. PATENTED OCT. 30, 1906.

B. G. RIGGS.

WELL TUBING CLAMP.

APPLICATION FILED JAN. 29, 1906.

Fig. 1.

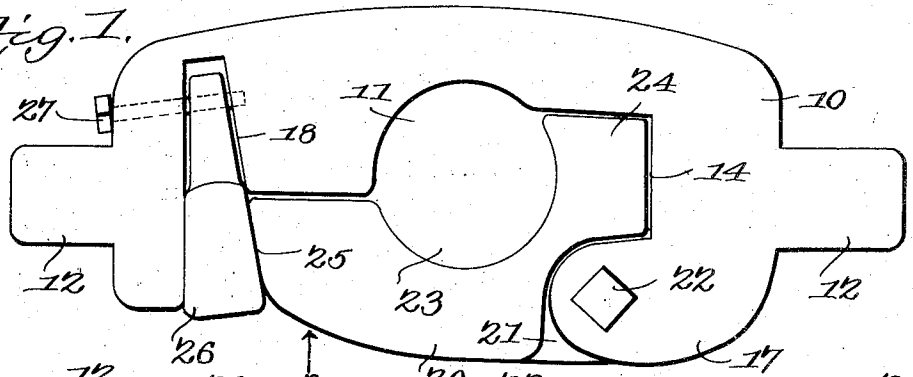


Fig. 2.

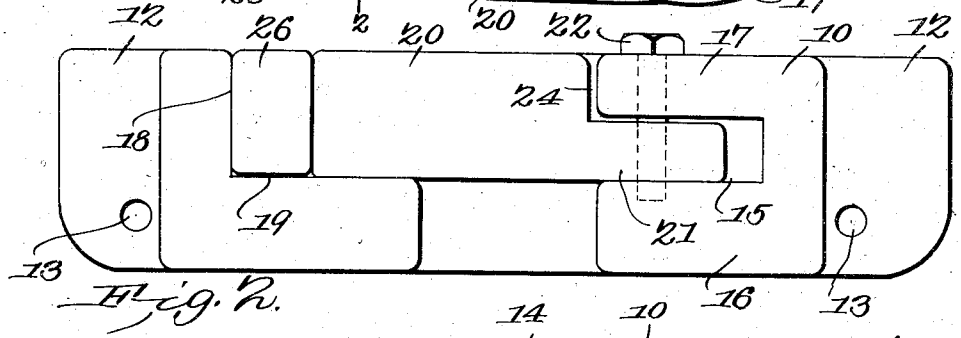


Fig. 3.

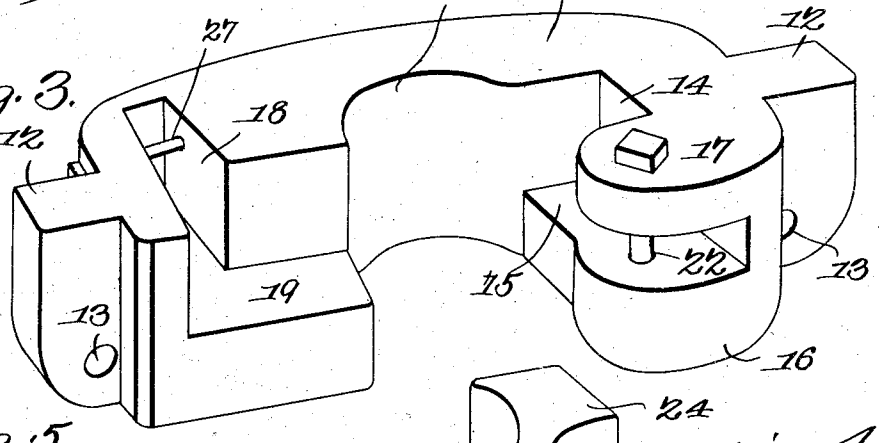


Fig. 5.

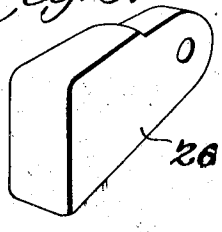
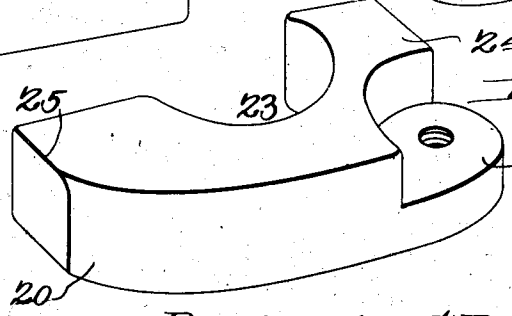


Fig. 4.



Witnesses

E. F. Wentworth

F. R. Morrill.

Benjamin G. Riggs, Inventor.

by Cushman & Co

Attorneys

UNITED STATES PATENT OFFICE.

BENJAMIN G. RIGGS, OF KINZUA, PENNSYLVANIA.

WELL-TUBING CLAMP.

No. 834,537. Specification of Letters Patent. Patented Oct. 30, 1906.

Application filed January 29, 1906. Serial No. 298,537.

To all whom it may concern:

Be it known that I, BENJAMIN G. RIGGS, a citizen of the United States, residing at Kinzua, in the county of Warren and State of Pennsylvania, have invented new and useful Well-Tubing Clamps, of which the following is a specification.

This invention relates to clamps for well-tubes and the like, and has for an object to provide a device of the class embodying new and improved features of durability, reliability, utility, and efficiency.

A further object of the invention is to provide a tube-clamp having improved means for securing the clamping members together whereby the strain is not borne by a pivot-pin.

With these and other objects in view the present invention consists in the combination and arrangement of parts, as will be hereinafter fully described, shown in the accompanying drawings, and particularly pointed out in the appended claims, it being understood that changes in the form, proportion, size, and minor details may be made without departing from the spirit or sacrificing any of the advantages of this invention.

In the drawings, Figure 1 is a top plan view of the improved well-tube clamp. Fig. 2 is a view of the clamp in side elevation. Fig. 3 is a perspective view of the yoke member of the improved clamp. Fig. 4 is a perspective view of the clamping member. Fig. 5 is a perspective view of the latch member.

Like characters of reference indicate corresponding parts in all of the figures of the drawings.

In its preferred embodiment the improved well-tube clamp forming the subject-matter of this application comprises a yoke member 10, having a central aperture 11, lugs 12 at each end which are provided with openings 13 for the attachmentof bails or links for lifting. At one side of the central aperture 11 is a recess 14, extending laterally part way through the yoke member and communicating with the aperture 11. On a plane with the bottom 15 of the recess 14 is formed an ear 16, and an ear 17, spaced from the ear 16, defines the recess 14. Opposite the recess 14 a wedge-shaped slot 18 is formed transversely of the yoke member and with the bottom 19 on a plane with the bottom 15 of the recess.

For coöperation with the yoke member a clamping member 20 is provided having an ear 21 disposed between the ears 16 and 17 and pivoted by the pin 22. The clamping member has an aperture 23, which complements the aperture 11, forming a circular tube-receiving opening. The clamping member has also an offset portion 24, proportioned to engage within the recess 14, and the end opposite is beveled, as at 25, to register with one side and form a continuation of the wedge-shaped slot 18.

Within and at the narrower end of the wedge-shaped slot is pivoted a wedge-shaped latch 26, as by the pin 27, and filling the slot and bearing against and receiving the thrust from the beveled end 25 and transmitting it to the opposite side of the slot.

From the foregoing it will be readily seen that while the clamping member and latch are for convenience of operation pivoted to the yoke member the strain is not borne entirely on the pins, as one end of the clamping member is engaged back of the ear 17 and the other by the latch 26. The formation of the latch and slot are such that the strain of the clamping member tends to force the latch against the opposite wall, thus relieving the pin 27 from strain.

Having thus described the invention, what is claimed is—

1. A well-tube clamp embodying a yoke member provided with a recess, a clamping member pivoted to the yoke member and having an offset portion proportioned to fit and engage in the recess and means for holding the clamp closed.

2. A well-tube clamp embodying, a yoke member provided with a recess, a clamping member pivoted to the yoke member and having an offset portion proportioned to fit and engage the recess and a latch arranged to engage and hold the clamping member closed.

3. A well-tube clamp embodying, a yoke member provided with a wedge-shaped slot, a clamping member pivoted to the yoke member, and a wedge-shaped latch disposed within the slot and positioned to engage the fore end of the clamping member.

4. A well-tube clamp embodying a yoke member provided with a central aperture and with a recess upon one side of the aperture and a wedge-shaped slot upon the opposite side, a clamping member having a central aperture registering with the aperture of the yoke to form a tube-receiving opening,

an offset formed upon the clamp member and proportioned to engage within the recess, and a wedge-shaped latch disposed within the slot and proportioned to engage the clamp member and force and hold the offset within the recess.

5. A well-tube clamp embodying a yoke member provided with a central aperture and with a recess upon one side of the aperture and a wedge-shaped slot upon the other side, a clamping member pivoted to the yoke and having a central aperture registering with the aperture of the yoke to form a tube-receiving opening an offset formed upon one end of the clamp member and proportioned to engage within the recess and the opposite end of the clamp member proportioned to form a continuation of the wedge-shaped slot, a wedge-shaped latch pivoted within the slot and means to support the clamp.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

BENJAMIN G. RIGGS.

Witnesses:

PERRY D. CLARK,

O. P. THOMPSON.