

F. J. VAN COTT.  
CLAMP.  
APPLICATION FILED OCT. 3, 1917.

1,296,883.

Patented Mar. 11, 1919.

Fig. 1.

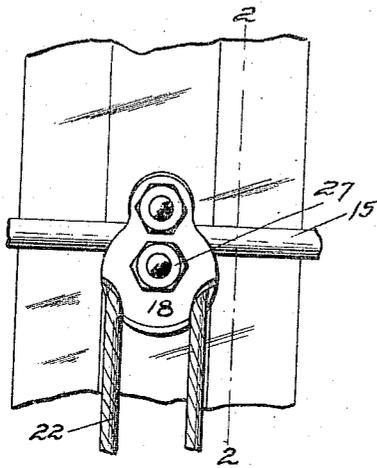


Fig. 2.

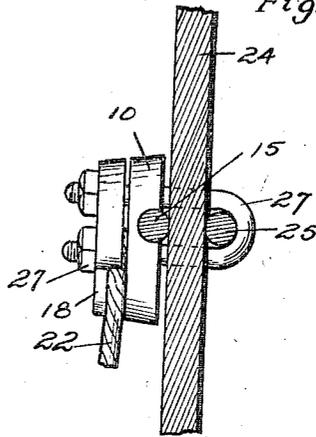


Fig. 3.

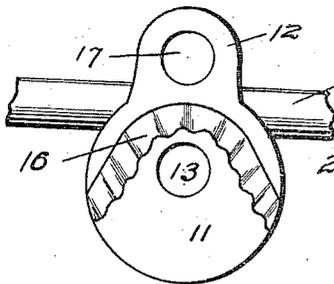


Fig. 4.

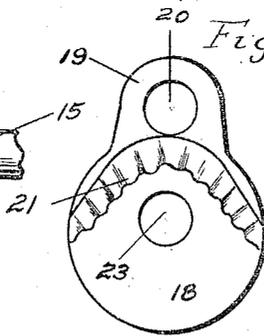
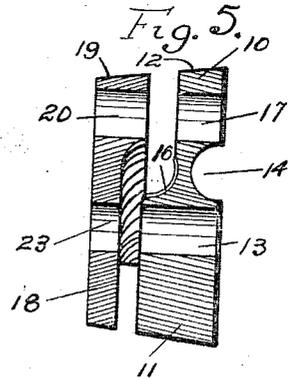


Fig. 5.



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# UNITED STATES PATENT OFFICE.

FRANK J. VAN COTT, OF UNADILLA, NEW YORK.

## CLAMP.

1,296,883.

Specification of Letters Patent. Patented Mar. 11, 1919.

Application filed October 3, 1917. Serial No. 194,630.

To all whom it may concern:

Be it known that I, FRANK J. VAN COTT, a citizen of the United States, and resident of Unadilla, in the county of Otsego and State of New York, have invented a certain new and useful Clamp, of which the following is a specification.

The object of my invention is to provide a clamp for cables and the like, especially adapted for securing anchoring cables to silos.

A further object of my invention is to provide a clamp of the kind mentioned adapted to be used in combination with silo hoops for firmly gripping a cable at any portion of the length thereof and adapted to be quickly and easily fastened for gripping a cable and to be quickly and easily loosened for shifting the position of the cable.

With these and other objects in view my invention consists in the construction, arrangement and combination of the various parts of the device whereby the objects contemplated are attained as hereinafter more fully set forth, pointed out in my claims and illustrated in the drawings filed herewith, in which:

Figure 1 shows a side elevation of a portion of a silo wall with a clamp embodying my invention assembled thereon.

Fig. 2 shows a vertical sectional view of the wall taken on the line 2—2 of Fig. 1, the clamp being shown in side elevation.

Fig. 3 shows a face view or front elevation of the inner clamp member.

Fig. 4 shows a face view of the outer clamp member looking from the inside of the clamp, and

Fig. 5 shows a vertical sectional view through both clamp members.

My device is designed particularly for use in fastening cables for silos of the construction such, for instance, as are shown in my copending application filed July 31, 1916, Serial Number 112,431, from which this invention was divided.

Each clamp device comprises two parts. The inner clamp member comprises a part having the substantial shape shown in Figs. 2, 3 and 5 indicated in the accompanying drawing by the reference character 10. Each inner clamp member has a substantially circular body 11 provided with an upward extension 12. The body 11 is provided with an opening 13 extending through it. The rear face of the inner clamp member is

adapted to rest against the outside of a silo wall or the like, and is provided with a transverse groove 14 designed to receive a hoop 15, which surrounds the silo. The outer surface of the body 11 is provided with a corrugated groove 16 extending from the central portion of the clamping member above the middle thereof on curved lines downwardly and outwardly, as clearly illustrated in Fig. 3. The portion of the outer surface or face of the inner clamp member above the groove 16 is cut away, so that the portion of said face below said groove 16 projects forwardly beyond the portion of the body 11 above the groove and also beyond the extension 12 as illustrated in Fig. 5. In the extension 12 is an opening 17 extending through said extension from front to rear.

The front or forward clamp member is of the general form shown in Fig. 4 and comprises a body substantially circular in outline indicated by the reference character 18.

The body 18 has an upward extension 19 similar in form to the extension 12 and provided with an opening 20 adapted to register with the opening 17. The upper portion of the inner face of the body 18 is provided with a corrugated groove 21 similar in form and outline to the groove 16 and adapted to coact therewith to grip and hold a cable 22 or the like. The body 18 is provided with a central opening 23 designed to register with the opening 13. The inner face of the body 18 below the groove 21 is cut away as illustrated in Fig. 5.

My improved clamp is preferably designed to be used for securing the cable 22 or the like to a silo wall 24. On the inside of the silo wall is a hoop 25 and on the outside is a similar hoop 15. Different means may be used for fastening the clamping device to the silo wall but I have shown an outwardly opening U-bolt 27 extending around the inner hoop 25 and through the wall and having its opposite arms extended through the openings 17 and 20 and 13 and 23 respectively. The cable 22 is received between the grooves 21 and 16 and is clamped therein by means of nuts 27 on the U bolt. The groove 14 receives the outer hoop 15. It will be seen that on account of the peculiar construction and arrangement of the clamp members the downward pull of the cable will bear very largely against the solid body 11 rather than entirely and directly into the joint between said members

11 and 18. The groove 16 is formed as it were on a shoulder of the body 11 against which the cable 22 bears directly. The clamping device is held against any rotary movement by means of the engagement of the body 11 with the hoop 15. The clamping device also serves to hold the hoops 15 and 25 against dropping downwardly. The clamps may be quickly and easily released by loosening the nuts 27 for varying the position or tension of the cable 22.

Some changes may be made in the construction and arrangement of the parts of my improved clamp without departing from the essential features and purpose of my invention, and it is my intention to cover by my present application any modified form of structure the use or mechanical equivalent of which may reasonably be included in the scope of the claims of the patent to be issued upon my application.

I claim as my invention:

1. A clamping device comprising a pair of coacting members, one member having on one face a curved groove, a portion of said member below said groove being cut away, the adjacent face of the other member having a corresponding groove, the grooves being so arranged as to engage the lower and upper surfaces of the portion of a cable extending through them, said members having pairs of registering openings above and below the central portions of said grooves.

2. A clamping device comprising a pair of coacting members, one member having on one face a curved groove, a portion of said member below said groove being cut away, the adjacent face of the other member having a corresponding groove, the grooves being so arranged as to engage the lower and

upper surfaces of a cable extending through them, said members having pairs of registering openings above and below the central portion of said grooves, one of said members having in its outer surface a transverse slot arranged between the openings in it.

3. In a device of the class described, the combination of a wall having hoops on the outside and inside thereof, with a clamping device comprising two clamp members, having on their adjacent faces corresponding curved grooves, the grooves being so arranged that one of them will engage the lower part of a cable extended through the grooves, said clamp members having pairs of registering openings above and below the central portions of said grooves, one of said clamp members having on its outer surface a transverse groove to receive one of said hoops, and means extended through the wall and through said openings for engaging the inner hoop and said clamp members and locking them together.

4. A clamping device comprising a pair of coacting clamp members, one member having on one face a curved groove, a portion of said member below said groove being cut away, the adjacent face of the other member having a corresponding groove, the portion of said face of said other member below said groove being cut away, said members having registering openings, and means for drawing said members together, the parts thereof being so arranged that when the clamp members are drawn toward each other with a cable received in said grooves, said cable will be engaged on its upper and lower surfaces.

Des Moines, Iowa, May 24, 1917.

FRANK J. VAN COTT.