

March 4, 1924.

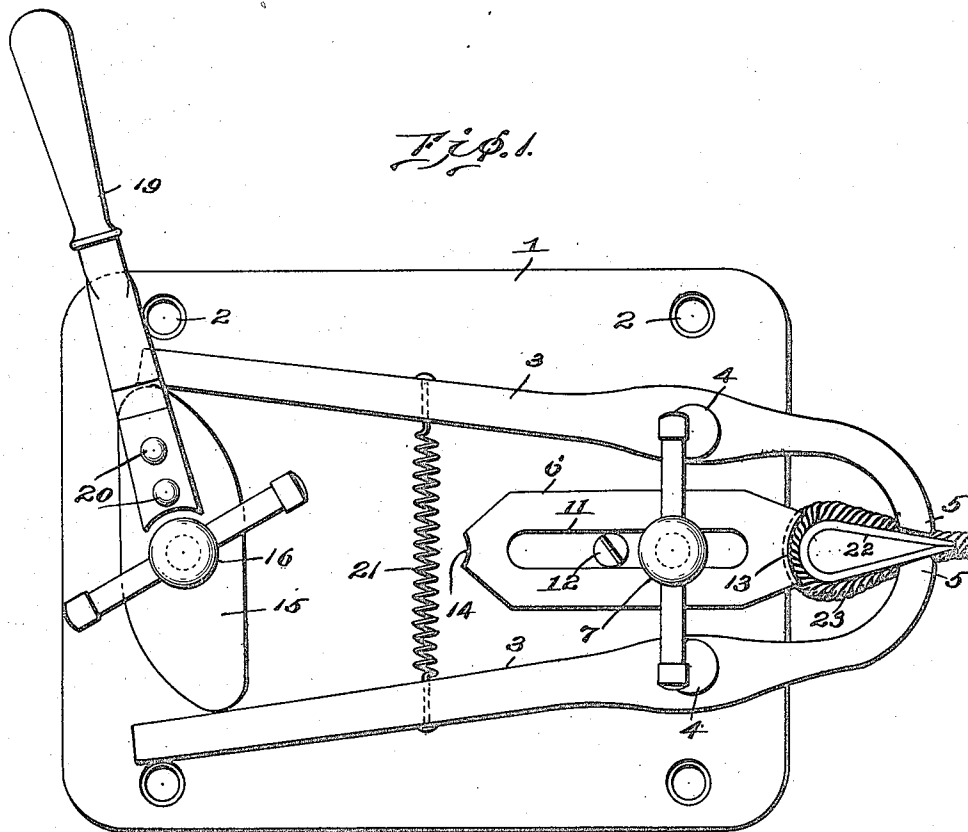
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I. O. STANGBYE

CABLE SPLICING DEVICE

Filed Aug. 4, 1922

2 Sheets-Sheet 1



Inventor
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By Robert H. Young Atty

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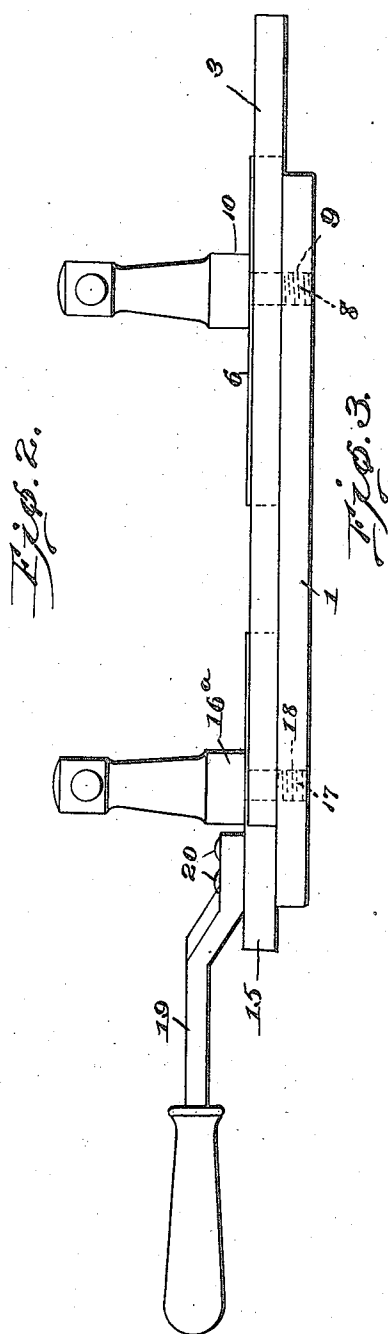
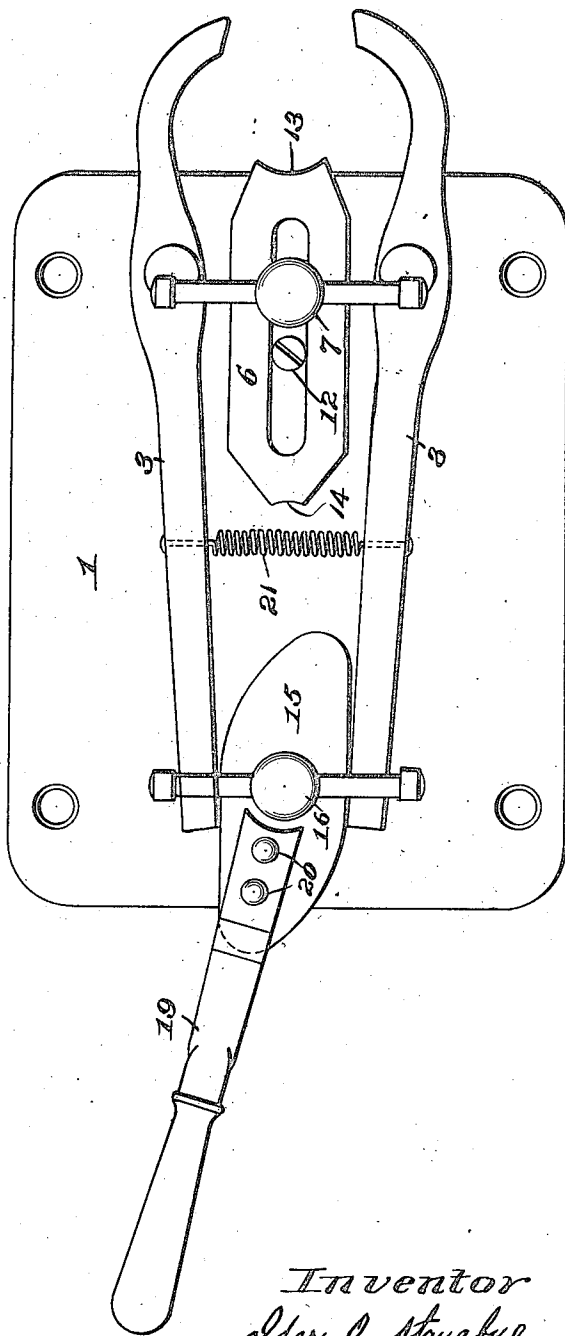
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Inventor
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UNITED STATES PATENT OFFICE.

IDAR OLIVER STANGBYE, OF SACRAMENTO, CALIFORNIA.

CABLE-SPICING DEVICE.

Application filed August 4, 1922. Serial No. 579,777.

To all whom it may concern:

Be it known that I, IDAR O. STANGBYE, a citizen of the United States, residing at Sacramento, San Francisco Ave., Box 1114, R. F. D. 4, in the county of Sacramento and State of California, have invented certain new and useful Improvements in Cable-Splicing Devices, of which the following is a specification.

This invention relates in general to vises and more particularly to a vise for use in splicing or making loops in cables. Considerable difficulty and loss of time has been experienced in splicing or making loops in cables by reason of the difficulty in holding such a device in sufficiently rigid position to enable the operation to be carefully and quickly carried out.

It is an object of my invention to provide a vise for retaining the cable rigidly in position during the process of splicing or loop making. As a further object of my invention I provide a cable vise which shall be readily clamped into position and which is provided with suitable adjusting means for the reception and handling of thimbles and loops of various sizes. The other objects of my invention will appear in the accompanying specification and claims and will be disclosed in the accompanying drawings, in which—

Figure 1 is a plan view of my device;

Figure 2 is a side elevation thereof, partly in diagram;

Figure 3 is another plan view showing the device out of clamping position.

Referring with greater particularity to the drawings, 1 is the base plate which may be secured to the work bench or to any other suitable stand by any suitable means, such as screws inserted through holes 2. The vise itself is comprised of two levers 3 rotatably mounted on the base plate 1 by means of stud bolts 4 or any other such mounting means. These levers are provided with arcuate gripping jaws 5.

A slotted backing plate 6 is mounted on the base plate 1 centrally between the two bolts 4, a locking screw 7 is provided to retain the backing plate in any desired position. This locking screw has a portion of such diameter as to permit it to pass snugly through the longitudinally extending slot 11 in the backing plate and is further provided at its lower end with a screw-threaded

portion 8 adapted to engage with the screw-threaded recess 9 in the base plate 1.

A shoulder 10 is adapted to bear on the backing plate at the sides of the slot 11 to retain the backing plate rigidly in any position desired. An aligning screw or guide screw 12 of a diameter such as to cause it to fit very snugly in the slot 11 of the backing plate, is provided. The purpose of this screw is to keep the backing plate in longitudinal alignment with the opening between the jaws 5. The two members 12 and 7 determine the alignment of the backing plate. At 13 and 14 there are provided two arcuate shaped recesses in the backing plate of different sizes to provide for the reception of cables and loops of varying sizes. At the opposite end of the base plate 1 there is mounted the actuating means for the vise. This actuating means is comprised primarily of a cam 15 rotatably mounted in the base plate 1 by means of the locking screw 16. This locking screw 16 has a screw-threaded portion 17 adapted to engage with a screw-threaded recess in the base plate 1. It also has a shoulder portion 16^a adapted to bear on the cam for the purpose of locking it in any desired position, and an operating handle 19 secured by means of screws 20 to the cam 15 for the purpose of moving the cam into the desired position for closing the jaws of the vise in gripping the cable or loops. A spring 21 is provided approximately mid-length of the levers 3 of the vise which tends normally to keep the jaws of the vise open against the action of the cam 15. At 22 there is shown the usual nipple around which the cable 23 is wrapped, as in making all loops.

From the foregoing description my device will be seen to operate as follows:

The base plate is first placed upon a suitable work bench and the backing plate 3 is placed with the desired arcuate surface facing in the direction of the jaws 5. The backing plate is then moved longitudinally forward or aft until in exactly the proper position with reference to the loop in connection with which it is being used. It is then locked rigidly in position by rotation of the locking screw 7. When it is desired to clamp the jaws 5 on to the cable it is necessary only to give the handle 19 a turn to one side the cam 15 acting upon

the ends of the levers opposed to the jaws in such a manner as to spread them apart and to clamp the jaws. The cam may be then locked into this position by means of locking screw 16. After the splicing or loop making has been completed the locking screw is released and the tension of the spring 21 tends to cause the levers 3 to so rotate the bolts 4 in such a manner as to release the loop from the jaws 5.

It will be further noted that when a great plurality of sizes of loops are desired, the backing plate 6 can be readily replaced by others with arcuate faces to fit whatever loop curvature is desired.

I claim—

1. In a cable vise, a base plate, a pair of lever members each provided with a vise jaw mounted on said base plate, a backing plate mounted centrally between said lever members, said backing plate being so designed as to permit longitudinal adjustment toward or away from the gripping jaws of said lever members, means for causing rotation of said lever members in such a manner as to bring said jaws into clamping positions, and spring means for opening said jaws upon release of said locking means.

2. In a cable vise, a base plate, a pair of lever members each provided with a vise jaw mounted on said base plate, a backing plate mounted centrally between said lever members, said backing plate being so designed as to permit longitudinal adjustment toward or away from the gripping jaws of said lever members, and means for causing rotation of said lever members in such a manner as to bring said jaws into clamping positions.

3. In a cable vise, a base plate, a pair of lever members each provided with a vise

jaw and mounted on said base plate, a backing plate located centrally between said lever members, said backing plate being provided with a longitudinal slot to provide for longitudinal adjustment, a locking screw passing through said slot and sitting in said base plate and provided with a shoulder for clamping said base plate in any desired position, and an aligning screw in said longitudinal slot adapted to retain said backing plate in longitudinal alignment with the opening of the jaws of said lever members, and a cam rotatably mounted on said base plate intermediate of the ends of said lever members and adapted by its rotation to cause a rotation of said lever members in such a manner as to bring said jaws into clamping position.

4. In a cable vise, a base plate, a pair of lever members each provided with a vise jaw and mounted on said base plate, a backing plate mounted centrally between said lever members and on said base plate, said backing plate being provided at its ends with accurate recesses of different dimensions, said backing plate being designed to permit longitudinal adjustment toward or away from the opening of the jaws of said lever members, aligning means for retaining said backing plate in alignment with the opening of said jaws, a cam rotatably mounted on said base plate intermediate of the ends of said lever members and adapted by its rotation to cause the rotation of said lever members in such a manner as to clamp said jaws together, and means for locking said jaws in said clamping position.

In testimony whereof I have affixed my signature.

IDAR OLIVER STANGBYE.