

A. I. EVERETT.
DEVICE FOR COMPRESSING PISTON RINGS.
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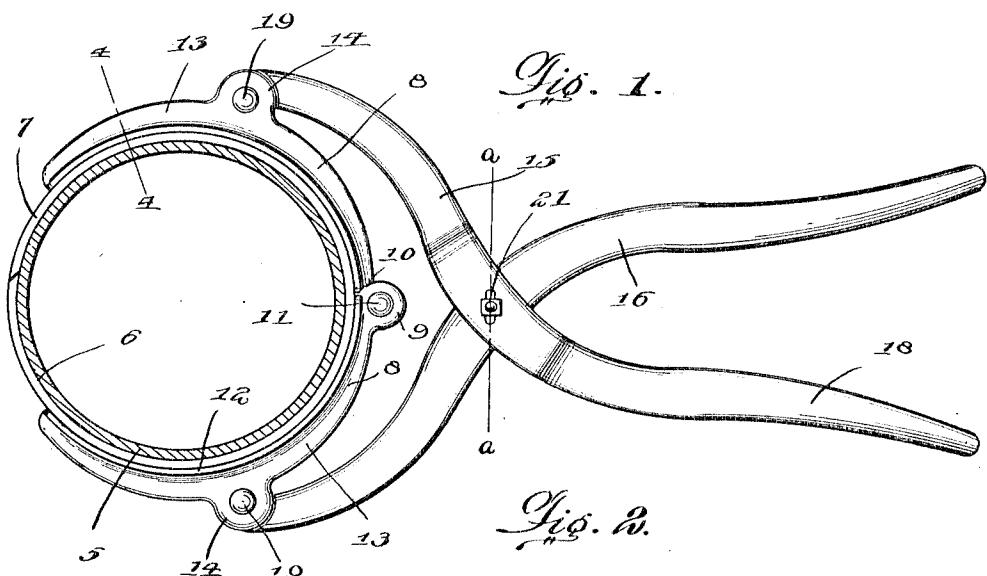


Fig. 2.

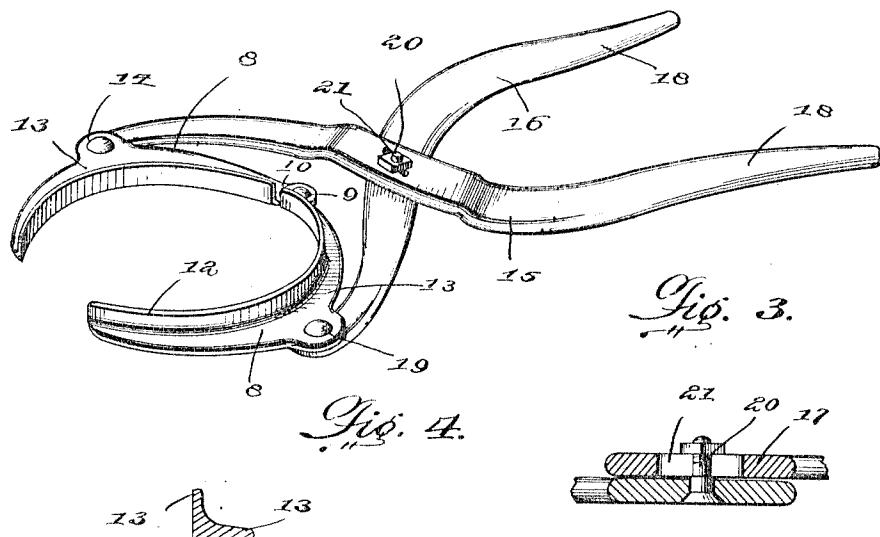
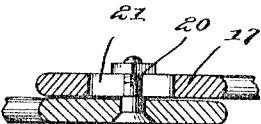


Fig. 4.



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Witnesses

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DEVICE FOR COMPRESSING PISTON-RINGS.

1,106,198.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, ARCHIE I. EVERETT, a citizen of the United States, residing at Mount Carmel, in the county of Northumberland and State of Pennsylvania, have invented new and useful Improvements in Devices for Compressing Piston-Rings, of which the following is a specification.

The primary object of this invention is the provision of a device adapted to compress the rings on a piston to permit the latter to readily and easily enter the cylinder. Considerable difficulty has heretofore been experienced in operatively associating the piston within the cylinder, requiring a great deal of time, and it is the purpose of this invention to facilitate and expedite this operation.

Another object of the invention is the provision of a device of the above mentioned character which is simple in construction, cheap to manufacture, and one which is readily and easily manipulated for the purpose intended.

Other objects of the invention will appear as the nature of the same is better understood, the invention residing in the combination, construction and arrangement of parts hereinafter more fully described and pointed out in the appended claims.

In the drawing forming a part of this application and in which like numerals of reference indicate similar parts in the several views; Figure 1 is a plan view of a piston in section, showing my improved device in use. Fig. 2 is a perspective view of the device. Fig. 3 is a sectional view taken on line $a-a$ of Fig. 1. Fig. 4 is a sectional view taken on line $4-4$ of Fig. 1.

Referring more particularly to the drawing 5 designates a piston having the usual circumferential grooves 6 in which are arranged the rings 7 which may be of any suitable construction, and which project beyond the plane of the piston.

The device forming the subject matter of my invention comprises a pair of arcuate shaped jaws 8 of a suitable length to embrace the major portion of the rings 7 circumferentially for the purpose as above stated of compressing the latter to permit the piston to readily and easily enter the cylinder. The jaws have their adjacent ends formed with apertured lugs 9 and 10 arranged in superimposed relation and through which extends a pivot 11 for pivot-

ally connecting said jaws together, the pin being secured in the lugs in any suitable manner. The jaws as shown in one embodiment of the invention are substantially L-shaped in cross section, the horizontal or base flanges 12 of which are relatively wide to increase the bearing surface of the jaw, so that the jaws, in addition to engaging the major portion of the rings circumferentially, will engage the major portion thereof with respect to their relative widths. The vertical flanges 13 of the jaws are each provided with an apertured ear 14 which projects laterally from a point approximately midway between the ends thereof and with which are pivotally connected one end of their operating handles or levers 15 and 16.

Each of the handles or levers is for the major portion of its length substantially flat and rectangular in cross section as at 17, while the remaining or hand gripping portions 18 are round. The ends of the flat portions 17 are arranged on one side of the ears 14 of the jaws and provided with an opening 19 registering with the aperture of the ears, and through which passes the pins 20 for pivotally connecting the jaws with the handles or levers. The handles or levers as shown in this particular instance are oppositely curved throughout their length and crossed at a point approximately midway between their ends and pivotally connected together by means of a slot and pin connection to provide for the proper operation of the device. The pin 20 is slidably adjustable in the elongated slot 21 of the handle 15 so that the gripping portions 18 of said handles or levers may be properly spaced by adjusting the pin 20 within the slot 21 to obtain proper leverage when the device is used with pistons of slightly varying diameters.

While the device may be used with pistons of slightly varying diameters it is to be understood that the device complete will comprise four pairs of different sized jaws with one pair of handles or levers, the jaws being adapted for interchangeable connection with the handles or levers to accommodate any sized ring or piston.

From the foregoing description considered in connection with the accompanying drawing it is believed that the nature and advantages of the invention will be thoroughly understood without further explanation and therefore the same has been omitted. However I desire it to be understood that I am

not to be limited to the detail construction and arrangement of parts herein shown, as the same is merely illustrative, and that various changes may be made within the scope 5 of the appended claims without departing from or sacrificing any of the advantages of the invention.

What is claimed is:—

1. A device of the class described comprising a pair of arcuate shaped pivoted jaws of substantially L-shaped formation in cross section adapted to embrace rings on a piston, and crossed pivotally connected handles connected with said jaws for operating the latter as described.
- 10 2. A device of the class described comprising a pair of arcuate shaped jaws pivotally connected together and adapted to embrace rings on a piston, and a pair of handles

pivots connected with each of said jaws 20 at a point between their ends for operating the latter in the manner and for the purpose described.

3. A device of the class described comprising a pair of arcuate shaped pivoted jaws of substantially L-shape formation in cross section adapted to embrace the rings on a piston, and a pair of cross handles pivotally connected with the lateral flange of each of said jaws at a point between their ends, 25 and adapted to operate said jaws in the manner and for the purpose described.

In testimony whereof I affix my signature in presence of two witnesses.

ARCHIE I. EVERETT.

Witnesses:

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