Nov. 18. 1924.

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C. T. OSTERBERG WRENCH

Filed March 30, 1922

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By Grwin, Oheelin Oloaaland Attorneys.

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UNITED STATES PATENT OFFICE.

CARL THEO. OSTERBERG, OF MILWAUKEE, WISCONSIN.

WRENCH.

Application filed March 30, 1922. Serial No. 547,992.

of the said angular projections. The projec-To all whom it may concern: Be it known that I, CARL THEODOR OSTER- tions and their enclosing sleeves stand trans-BERG, a citizen of the United States, and a versely aligned with respect to the handle to

5 Milwaukee, and State of Wisconsin, have slot opening in the direction of the length of invented certain new and useful Improve- the handle is formed between the said ments in Wrenches; and I do declare the fol- aligned parts. lowing to be a clear, exact, and complete de- After the projections 12 have been entered 10 skilled in the art to which the invention re- into parallelism, the said members are perlates to make and use the same, reference be- manently connected so as to fix the structure ing had to the accompanying drawing, as by means of a rivet or post 14. A sleeve 15 showing a practical embodiment of my in- may be placed about the rivet 14, and serve vention.

15 My invention relates particularly to the ends of the rivet 14 are upset. wrenches suitable for gripping and holding A flexible strap 16 is looped about and atcylindrical objects. It has been my object to tached to the post 14, and the free end of produce a wrench which can be used with, said strap is passed from the rear through 20 jars, finished or nickel plated pipes used in sleeves 13 at the front end of the handle. A connection with plumbing fixtures, etc. loop will be formed in the slack portion of

I have illustrated some forms of construc-

resident of the city of Milwaukee, county of present a widened front end, and a vertical 60

scription thereof, such as will enable persons in the sleeves and the members 11 brought 65 as a distance piece for the members 11 when 70 and without damage to, such articles as fruit the vertical opening or slot between the 75 the strap between the sleeves 13 and the post tion, suitable for a wrench to be used for 14, such loop then being placed over a jar

holding fruit jars, etc., but it will be under or container 17, when the wrench is used to 8025 stood that this may be modified in order to hold a jar or container. In using the wrench ity for other uses.

specification,

- 30 Figure 1 is an isometric perspective show- passing the free end through the space being the wrench in inoperative position, as tween the sleeves.
 - in operative position.
- 35end of the wrench.
- 40

secure sufficient strength or better adaptabil- to grip a pipe or other object so located that the loop in the strap 16 cannot be slipped In the drawing which accompanies this over the end thereof, it will be necessary first to loop the strap about the object before 85

applied to a jar or other cylinder. After being applied in either of the man-Fig. 2 is a plan view showing the wrench ners described the projecting free end of the strap is pulled taut, with the wrench in the 90 Fig. 3 is an end view in elevation of the relative position shown in Fig. 1. Therewrench showing the angular extensions of upon the handle 10 will be given a movement the handle with the sleeves encircling the of rotation about the object encircled by the same, spaced so as to provide a slot in the strap, into the position shown in Fig. 2, so that the strap will be tightly drawn about 95 Fig. 4 is a perspective view of a modified the object for almost its entire circumference. form of construction in which the slot is In such movement, the rear sleeve 13 will be formed in the front end of the wrench, with- encircled by the strap. Pressure applied to out using the sleeves shown in Fig. 3. the handle 10 to effect the rotative movement In the drawing, referring to Figs. 1, 2 and described will cause the front sleeve 13 to 100

45 3, a handle 10 made from a metal strip bent pinch the layers of the strap, in the manner at its middle into U shape with parallel mem- illustrated in Fig. 2, so that slipping thereof bers 11, is provided with spaced projections is prevented. In such position the front 12. These projections are bent at a right an- sleeve 13 acts as a fulcrum for the handle 10, gle to the plane of the members 11, and their so that the frictional engagement of the strap 105 50 free ends approach each other in the manner with the object is increased by the further shown in Fig. 3, the projections from each rotation of the handle. The engagement member being encircled by a sleeve 13 to thus effected is sufficient to cause rotation of cover the joint at the meeting ends and pre- the object, or to prevent its rotation in case sent a smooth surface over which the flexible a contrary force be applied. 110 55 strap, to be later referred to, may move with-out engagement of the strap with the ends the wrench. In this form, the metal strip

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forming the handle is provided with a per- a circular object and the handle rotated the forated slot 18 at its middle portion, the strap will have frictional engagement with metal strip being bent transversely at points the said object. in proximity to the ends of the slot, and ex- 4. In a wrench, a handle comprising sepa-605 tended to form parallel members 111 of the rated parallel members with a slotted formahandle, the free ends of the strip being tion connecting the said members at the curved toward each other and brought to- front end of the handle, the slot thereof gether at 20, the said free ends being pro- opening in the direction of the length of vided with locking projections to prevent the handle, a flexible strap connected to the 65)) displacement, when the members 111 are se- handle with the free end of the said strap cured in fixed position by means of the rivet passed from the rear through the slot in the 14 as before. The application and use of front end of the handle, whereby when that the flexible strap in connection with this portion of the strap extending from the modified construction is the same as that slot to the attached end is looped about a 70 which has already been described. circular object and the handle rotated the Having thus described my invention, what strap will have frictional engagement with I claim and desire to secure by Letters Pat- the said object: 5. In a wrench, a handle having an end ent of the United States is: 1. In a wrench, a handle formed from a comprised of parallel members aligned 75 strip bent upon itself to provide parallel transversely of the handle and having a slot members which terminate at their front ends between said members, the said slot openin spaced angular extensions, transversely, ing in the direction of the length of the aligned sleeves arranged upon the said ex- handle, and a post fixed in the handle in the tensions and spaced to provide a vertical rear of the said slot and parallel thereto, 80 slot, a post connecting the members in the in combination with a strap connected to the rear of the slot-and parallel thereto, an ad- said post and having its free end passed justable strap connected at one end to the through the said slot from the rear, whereby post and passing through the slot from the when a loop of the strap between the said rear, whereby when the strap is looped about post and the slotted end is passed about a 85a circular object and the handle rotated the circular object and the handle rotated, the strap will have frictional engagement with strap will encircle one of the said members and be pinched by the other, to cause the the said object.

2. In a wrench, a handle formed from a strap to have a frictional engagement with strip bent upon itself to provide parallel the said object. -90) (

members with a slotted formation at the 6. In a wrench, a handle having an end fronteend of the handle, the slot thereof formed with transverse members separated opening in the direction of the length of by a slot which opens in the direction of the the handle, a post connecting the members length of the handle, in combination with in the rear of the slot and parallel thereto, a flexible strap attached at one end to the 95 an adjustable strap connected at one end handle in the rear of the said slot and having to the post and passing through the slot its free end passed through the said slot from from the rear, whereby when a loop of the the rear, whereby when a loop formed in strap between the post and the slotted end the strap between its attached end and the is passed about a circular object and the slotted end of the handle is passed about a 100handle rotated the strap will have frictional circular object and the handle rotated, the strap will be pinched by the end of the

engagement with the said object.

3. In a wrench, a handle comprising sepa- handle and caused to have frictional engagerated parallel members with a slotted forma- ment with the said object. tion connecting the said members at the In testimony whereof I have signed my 105 5) front end of the handle, the slot thereof name at Milwaukee this 27th day of March opening in the direction of the length of the 1922. handle, a post connecting the members in the C. THEO. OSTERBERG. rear of the slot and parallel thereto, an ad-

justable strap connected at one end to the 5 post and passing through the slot from the rear, whereby when the strap is looped about

Witnesses: W. F. WOOLARD, W. E. REUSS.