. . Nov. 18, 1924. 1,516,438 F. R. INSKIP -IMPLEMENT FOR SCOURING RIFLED FIREARMS . . Filed April 28. 1923 • State The True The -. •

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Fig 1.

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Fig 2.



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Fig 4.



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INVENTOR :

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1,516,438

Patented Nov. 18, 1924.

UNITED STATES PATENT OFFICE.

FRANCIS REGINALD INSKIP, OF MELBOURNE, VICTORIA, AUSTRALIA, ASSIGNOR OF ONE-HALF TO STANLEY EDWARDS, OF MELBOURNE, VICTORIA, AUSTRALIA.

IMPLEMENT FOR SCOURING RIFLED FIREARMS.

Application filed April 28, 1923. Serial No. 635,315.

may be used in place of the cap and the To all whom it may concern: Be it known that I, FRANCIS REGINALD union or enlarged inner end of the rod.

Britain, residing at Melbourne, Victoria, metal or strong rigid material known to be useful Improvements in Implements for washer collars are preferably slightly bev-Scouring Rifled Firearms, of which the fol- eled at their ends from their outer edges 12

10 implements for removing metal and other on each washer collar. fouling from rifled firearms and for simul- The washer collars are made of smaller taneously burnishing the bore of the fire- diameter than the inner bore of the firearm arms. These purposes are herein referred and the scouring collars are made of such to as scouring rifled firearms. The objects diameter as to expand radially under axial 15 of my improvements are first to provide pressure to a diameter greater than the inner 70 scouring means which will be firmly and diameter of the bore. Preferably, the scouruniformly pressed into the grooving of the ing collars fit tightly within the bore when rifle and which will rotate and follow the unexpanded. Normally each scouring colgrooving as the implement is forced along lar is one eighth to one quarter of an inch 20 the bore and second to enable an axial blow $(\frac{1}{8''}-\frac{1}{4''})$ in length while the correspond- 75 to be struck upon the scouring means when ing dimension of the washers is approxisuch means become jammed in the bore. mately one eighth of an inch $(\frac{1}{8}'')$. Pref-

illustrated in the accompanying drawing, in and four (4) or five (5) washer collars are 25 which:— Fig. 1 is a longitudinal section of the implement; Fig. 2 is an end view showing the rod in section;

INSKIP, subject of the King of Great The rod is constructed of brass, or other 5 Australia, have invented certain new and suitable for this class of manufacture. The 60 lowing is a specification. (Fig. 3) to their innner edges 13. A pe-My invention relates to improvements in ripheral groove 14 is preferably provided 65

I attain these objects by the mechanism erably five (5) or six (6) scouring collars

Fig. 3 is an enlarged side view of a beveled 30 washer collar;

Fig. 4 is a side view of a modified detail; and

Fig. 5 is a side view of a modified form 35 of the implement.

Similar numerals refer to similar parts throughout the several views.

to the end of a cleaning rod 2 by a screw abutment formed by the union or the en-(1) with a series of short sliding scouring collars 4 of leather, or other known material cause the scouring collars to be compressed series of loosely fitting washer collars 5 of with the result that they are expanded radi-

used in practice and their total combined ⁸⁰ length is about half the length of the slide portion of the rod.

These preferred dimensions relates to an implement for use with an ordinary service rifle, but the diameter and other dimensions⁸⁵ of the parts of the implement may be varied to suit different types of rifle firearms.

In operation of the invention, the cleaning rod with the implement attached is forced along the bore of the firearm and, more 90 especially when the outermost scouring collar strikes an obstruction, the scouring and A rod of metal 1 adapted to be attached washer collars are forced back against the 40 threaded union 3 or otherwise, is provided, larged inner end of the rod. Both the force 95 of the impact and the steady axial pressure suitable for such scouring and (2) with a longitudinally between the washer collars

45 metal, or other known suitable hard ma- ally and forced under considerable pressure 100 terial, placed between these scouring collars. into the grooving of the firearm. When the To retain the scouring collars and washer cleaning rod is withdrawn along the bore, collars on the rod and to limit their sliding the scouring and washer collars are corremovement, the union 3, or the inner end of spondingly forced against the outer abutthe rod itself, is made of larger diameter ment formed by the cap. It will thus be 105 50 than the main portion of the rod while a re- seen that the more firmly seated the obstructaining cap 6 of larger diameter than the tion may be, the greater will be the radial rod is screwed, or otherwise firmly attached, pressure of the scouring collars on the rifle to the outer end of the rod. If preferred grooving and, if the collars become jammed, 55 other known suitable forms of abutments a backward and/or forward blow may be 110

delivered with the cleaning rod. The radial comprising a slide-rod having end abutexpansion of the scouring collars is increased ments, concentrically apertured slidable if the washer collars are beveled as described scouring collars positioned thereon and bein relation to Figure 3. The groove 14 as tween automatically slidable washer collars, 60 5 sists to accommodate fouling removed by the the rod and washer collars being axially scouring collars and to facilitate clearance alined. if the scouring material should tend to work 3. The combination in an implement for over onto the edges of the washers. scouring rifled firearms, of a slide rod hav-10 in separate short lengths enables it to ro- collars positioned on the rod between slidtate and follow the grooving much more able beveled washer collars. readily than would be the case with a sin- 4. An implement for scouring rifled fire-

ment—preferably one to each end of the im- collars.

The construction of the scouring material ing end abutments, with slidable scouring 65

gle long length and with this object the sur- arms provided with a slide rod having a

face of the rod as well as the inner, outer, union at one end for attachment to a clean- 70 15 peripheral and axial surfaces of the wash-ing rod, an abutment formed by one end of ers and scouring collars are made substan- the union, a second abutment formed by a tially smooth and uniform. In the modification shown in Fig. 4, the slidable washer collars, and a series of slidunion and cap abutments 3, 6 are replaced able scouring collars each positioned alter- 75 20 by cap hook abutments 9 on which a hook nately with a series of washer collars and of 10 is provided so that, instead of utilizing such dimensions that the scouring collars a cleaning rod, a loop on a pull-through will expand radially under axial pressure to cord or wire may be attached to the imple- a diameter greater than that of the washer

25 plement. 5. An implement for scouring rifled fire-In the modification shown in Fig. 5 the arms provided with a slide rod having an rod 1 and abutments 3, 6 are replaced by a abutment at one end and means for attachcord or wire 7 having knots or other abut- ment to a cleaning rod, an abutment at the ments 8. other end formed by a removable cap, a se- 85 ³⁰ As a further modification, it will be ob- ries of slidable scouring collars and a se-

vious that, while a series of collars is pre- ries of slidable washer collars interposed beferred, some of the advantages of the in- tween the scouring collars.

vention could be obtained with a single 6. An implement for scouring rifled firelength of scouring material—either slidable arms provided with a metal slide rod, abut- 90 5 or partially fixed in position-in combina- ments on the ends of the slide rod, and a se-

tion with an abutment, or abutments, and ries of slidable leather scouring collars inone or more slidable washer collars.

> Such modifications, however, would normally be attended by greatly decreased ef-**D** ficiency.

hereafter to mean: substantially slidable under the combined action of the axial thrust terposed between slidable beveled metal. of the implement and the friction of the scouring material on the inner surface of the barrel of the fire-arm.

I claim:

1. An implement, for scouring firearms, comprising a rod, stop faces thereon, a plurality of radially expansible scouring elements and a plurality of automatically slidable compression members axially alined on ture. said rod, the said members being alternately disposed with said elements and between said stop faces.

2. An implement, for scouring firearms,

terposed between slidable metal washer collars.

7. An implement for scouring rifled fire- 95 arms provided with a metal slide rod, abut-The term "automatically slidable" is used ments on the ends of the slide rod, and a series of slidable leather scouring collars inwasher collars. 100

8. An implement, for scouring firearms, provided with elastic scouring elements interposed between compression elements, both the scouring and compression elements being free to slide and rotate upon a cylin- 105 drical section of said implement.

In testimony whereof he affixes his signa-

FRANCIS REGINALD INSKIP. Witnesses:

L. B. DAVIES, JOHN COOK.

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