June 19, 1923. 1,459,488

G. M. WOFFORD ET AL

HOOK

Filed Nov. 30, 1921

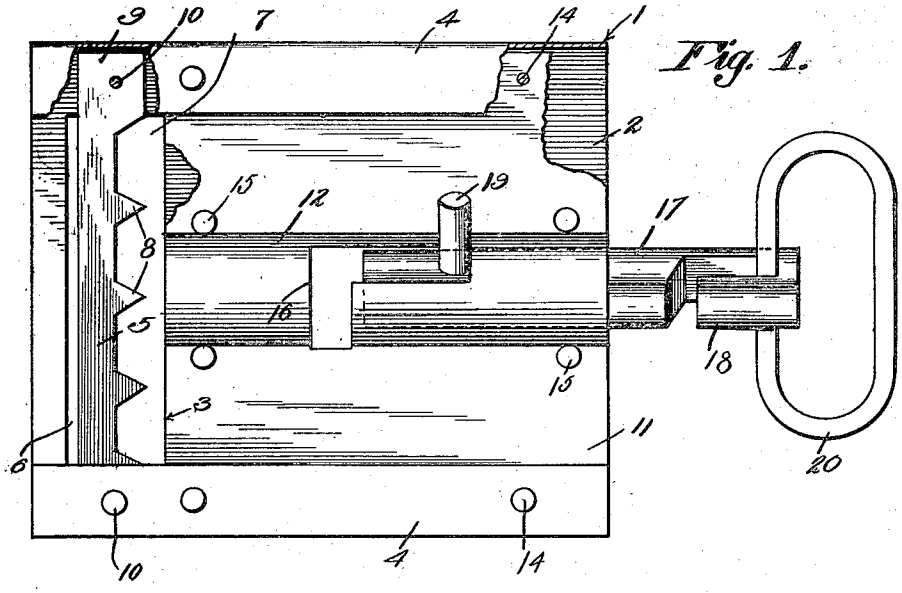

Fig. 1.

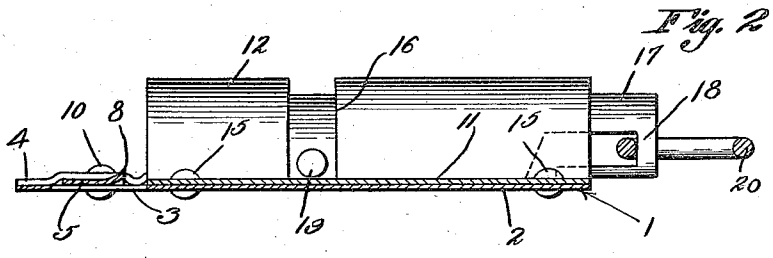

Fig. 2

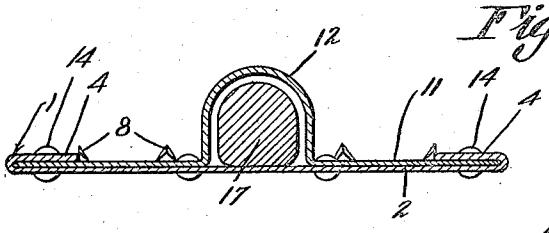

Fig. 3.

G.M. Wofford
J.A. Bristow
Inventors

By C.A. Snow & Co.
Attorneys

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UNITED STATES PATENT OFFICE.

GEORGE MILLER WOFFORD AND JOHN ALONZO BRISTOW, OF ATHENS, TEXAS.

HOOK.

Application filed November 30, 1921. Serial No. 518,937.

To all whom it may concern:

Be it known that we, GEORGE MILLER WOFFORD and JOHN ALONZO BRISTOW, citizens of the United States, residing at Athens, in the county of Henderson, State of Texas, have invented a new and useful Hook, of which the following is a specification.

It is the object of this invention to provide a simple means whereby the parts of a back band of a harness or the like may be connected securely but separably.

It is within the province of the disclosure to improve generally and to enhance the utility of devices of that type to which the invention appertains.

With the above and other objects in view, which will appear as the description proceeds, the invention resides in the combination and arrangement of parts and in the details of construction hereinafter described and claimed, it being understood that, within the scope of what is claimed, changes in the precise embodiment of the invention shown can be made without departing from the spirit of the invention.

In the accompanying drawings:—

Figure 1 shows in plan, a device constructed in accordance with the invention; Figure 2 is a longitudinal section; and Figure 3 is a transverse section.

The device forming the subject matter of this application includes a body 1 comprising a main plate 2 equipped adjacent to one end with a transverse opening 3 and having overhanging side flanges 4. The numeral 5 marks a cross bar, extended transversely of the opening 3 and dividing the same into an outer slot 6 and an inner slot 7, one edge of the cross bar 5 being supplied with teeth 8, disposed at an angle to the plate 2. The cross bar 5 has broadened ends 9 received between the main plate 2 and the flange 4 thereof, and held in place by securing elements 10, passing through the main plate 2, through the ends 9 of the cross bar and through the flanges 4. An auxiliary plate 11 is superposed on the main plate 2 and serves to reinforce the same. At its longitudinal center, the auxiliary plate 11 is bulged outwardly to form a tubular guide 12. The edges of the auxiliary plate 11 extend beneath the flanges 4 of the main plate 2, securing elements 14 engaging the main plate 2 the plate 11 and the flanges 4. Further, securing elements 15 connect the auxiliary plate 11 with the main plate 2, at points adjacent to the tubular guide 12 to the end that the auxiliary plate 11 may not spring or bend outwardly, away from the plate 2. The tubular guide 12 is provided with a bayonet slot 16. The bolt 17 is mounted for reciprocation in the guide 12, in slidable contact with the main plate 2, and has a stud 19 adapted to move in the bayonet slot 16. In the outer end of the bolt 17, a hook 18 is formed, the same being adapted to receive detachably, a link 20.

In practical operation, a flexible element of any desired sort may be extended through the slot 6, over the cross bar 5, and through the slot 7, the teeth 8 serving to hold the flexible element in place. A flexible element or anything else may be connected to the link 20. It is clear that when the bolt 17 is advanced, as shown in Figure 1 the link 20 may be detached from the hook 18. If the bolt 17 be retracted in the guide 12, and rotated, the bill of the hook 18 will enter the guide 12 as shown in Figure 2 and, consequently, the link 20 cannot be detached from the hook. When the bolt 17 is retracted and rotated, as aforesaid, the stud 19 on the bolt enters the transverse portion of the bayonet slot 16 in the guide 12 and, thus, the bolt 17 is held retracted, in the position shown in Figure 2.

What is claimed is:—

1. In a device of the class described, a body comprising a main plate having overhanging flanges; an auxiliary plate engaged beneath the flanges, and provided with a guide; a bolt mounted to reciprocate in the guide and supplied at one end with a hook which is closed by the guide when the bolt is retracted; and interengaging elements on the bolt and on the guide coacting to hold the bolt retracted.

2. In a device of the class described, a body including a main plate having overhanging flanges; an auxiliary plate on the main plate and engaged beneath the flanges, the auxiliary plate being provided with a guide and being of less length than the main plate; means on the main plate and engaged by the flanges, for receiving a flexible ele-

ment; and a bolt slidable in the guide, the bolt being provided with a hook which is closed by the guide when the bolt is retracted; and interengaging elements on the bolt and the guide, for holding the bolt retracted.

In testimony that we claim the foregoing as our own, we have hereto affixed our signatures in the presence of two witnesses.

GEORGE MILLER WOFFORD.
JOHN ALONZO BRISTOW.

Witnesses:
E. H. NIXON,
JEANNIE MILLS.