

(No Model.)

J. T. SWARTZ.  
REIN BUTTON.

No. 491,199.

Patented Feb. 7, 1893.

FIG. 1.

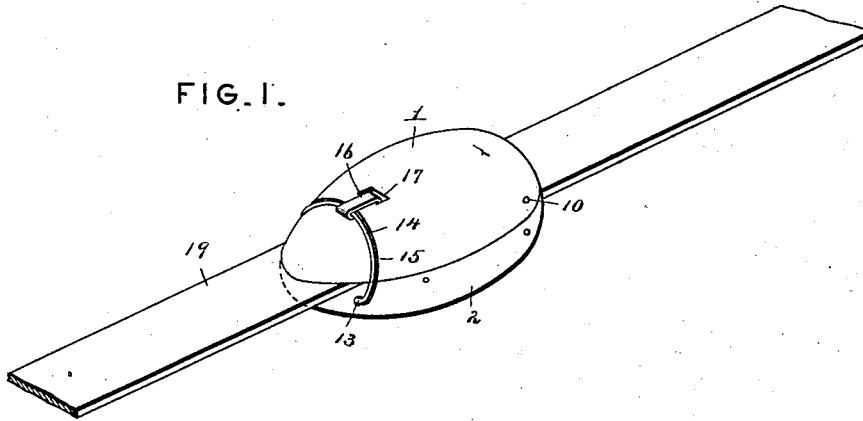


FIG. 2.

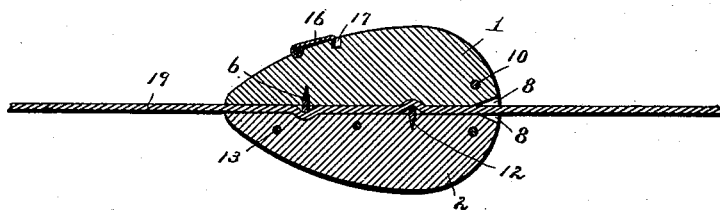


FIG. 3.

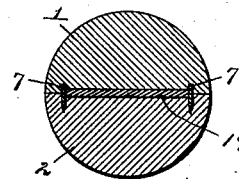


FIG. 4.

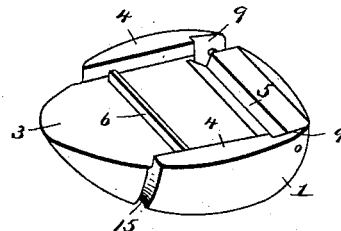
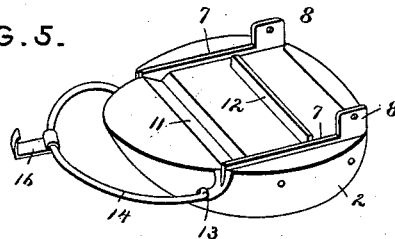


FIG. 5.



Witnesses

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Inventor

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By his Attorneys,

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# UNITED STATES PATENT OFFICE.

JOHN TORRENCE SWARTZ, OF TYRONE, PENNSYLVANIA.

## REIN-BUTTON.

SPECIFICATION forming part of Letters Patent No. 491,199, dated February 7, 1893.

Application filed October 31, 1892. Serial No. 450,530. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN TORRENCE SWARTZ, a citizen of the United States, residing at Tyrone, in the county of Blair and State of Pennsylvania, have invented a new and useful Adjustable Button for Reins, of which the following is a specification.

My invention relates to improvements in adjustable buttons for reins or what are commonly called lines; and the objects in view are to produce a cheap and simple device adapted to be readily and quickly adjusted upon reins or lines and to afford a convenient hand-hold for the driver.

Various other objects and advantages of the invention will appear in the following description and the novel features thereof will be particularly pointed out in the claims.

Referring to the drawings:—Figure 1 is a perspective view of a portion of a rein or line, the same being provided with my improved button or holder. Fig. 2 is a vertical longitudinal section through the same and the line. Fig. 3 is a transverse section. Figs. 4 and 5 are details in perspective of the two members detached composing the device.

Like numerals of reference indicate like parts in all the figures of the drawings.

In practicing my invention I employ buttons or holds, whose external shape may be varied to suit the fancy of the manufacturer or user. The preferred form, however, is elliptical in contour as I deem the same capable of providing a better hand-hold than any other form. However, it may be spherical or oblong if preferred. I also contemplate forming the attachment of hard wood and metal, bone, hard rubber, ivory, &c.

In constructing the device I employ opposite halves or sections, designated as 1 and 2, either one of which may be uppermost. For convenience I will designate 2 as the lower section, and 1 as the upper section; though their relative positions may be reversed if desired. The upper section 1 is provided upon its inner or plain face with a shallow longitudinally-disposed recess 3, which extends from end to end thereof, and produces at opposite sides flanges 4. The bottom of the recess 3 is provided near its rear end with a transverse groove 5 located between the flanges 4, and said bottom is further provided in ad-

vance of the groove with a transverse rib or flange 6, the same extending downward from the recess 3 and nearly flush if not quite so with the flanges 4. The lower section is provided at points corresponding with the inner walls of the flanges 4 with superficial upwardly-extending flanges 7 which are designed to fit between the flanges 4 and thus prevent lateral displacement of the two sections when they are assembled. These flanges 7 at their rear ends terminate in ears 8 that extend upward from the section 2, and enter recesses 9 formed in the upper section 1, and are pivoted or hinged thereto by a transverse pin 10, that extends through the section 1 and the aforesaid ears. The lower section is provided near its front end with a transverse groove 11 which registers with the depending flange 6 of the upper section and in rear of the groove 11 is provided with a superficial or upwardly-extending flange or rib 12 which registers with the transverse groove 5 of the upper section. The lower section near its front end is provided with a transverse opening and in the same a pintle 13 is loosely mounted and to the pintle a semicircular bail 14 is loosely connected. This bail is adapted to be sprung over the front end of the upper section 1 and into a circumferential-groove 15 with which the exterior of said upper section is provided. A loose hook 16, is mounted on the bail, and when the same is in position within the groove and the two sections are locked against separation the free end of the hook is swung into an indentation or opening 17 with which the section 1 is provided in rear of its circumferential-groove.

19 designates a rein or driving-line, and the same has its rear end passed between the two sections and lies between the flanges 4 and 7, whereby it is prevented from becoming displaced within the sections. The line is also passed through the bail.

In order to adjust the device upon the line the bail is swung to an unlocking position and the device slipped along the line to the proper point after which the sections are closed together, the ridges 6 and 12 pressing the lines into the grooves 11 and 5, respectively, so that a bite is formed upon the lines and the intensity of the same further increased by a springing of the locking bail

into the circumferential groove. When in position it will be found impossible for the holder to slip, and thus a secure and efficient hand-hold is provided, one which is capable of being readily adjusted without the use of any tools or the loss of any time.

Having described my invention, what I claim is:—

1. In a line-holder, the combination with opposite halves or sections one of which is recessed longitudinally through and through, forming opposite side flanges, transverse superficial ribs, and corresponding grooves formed on and located in the adjacent faces of said sections, between the flanges of locking devices for clamping the sections together, substantially as specified.

2. In a line-holder, the combination with the opposite sections one of which is recessed on its inner face from end to end in a longitudinal direction forming opposite side flanges, of a hinged connection between the adjacent ends of said sections, means for locking the sections together in a clamped position, and transverse ribs and grooves registering with each other and formed on and located in the adjacent faces of said sections, between the flanges substantially as specified.

3. In a line-holder, the combination with the opposite sections hinged together at the corners of their adjacent ends and provided with transversely-disposed ribs and grooves formed on and located in the adjacent faces of the sections between the flanges and registering with each other, of a bail pivotally secured to one section and adapted to be sprung over the companion section, and a circumferential-groove formed in said companion section for engaging the bail, substantially as specified.

4. In a line-holder, the combination with the opposite halves or sections hinged together at adjacent ends and provided with corresponding ribs and grooves formed on and located in their adjacent faces, of a pintle passed through one of the sections, a wire bail loosely mounted on the pintle, a hook loosely connected to the bail, and a groove formed in the opposite section for receiving the bail and in rear of the same an opening for the reception of the hook, substantially as specified.

5. In a line-holder, the combination with the sections 1 and 2, the former having its under side and inner face longitudinally grooved throughout its length at 3 forming the flanges 4, the bottom of the groove 3 being provided with a depending rib 6 and in rear of the same with the transverse groove 5; and the lower section 2 having the longitudinal ribs 7 for taking between the ribs 4 and the front transverse groove 11 and rear transverse rib 12 registering respectively with the ribs and grooves 6 and 5, the ears formed on the groove 7 and taking into recesses formed in the section 1, and the pintle passed through the ears and section 1, of a transverse pintle 13 passed through the section 2 near one end, the bail 14 mounted thereon, the hook upon the bail, the circumferential-groove for receiving the bail, and an opening for receiving the hook, the groove and opening being formed in the section 1, substantially as specified.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

JOHN TORRENCE SWARTZ.

Witnesses:

EMANUEL HAINES KOHR,  
JOHN HART.