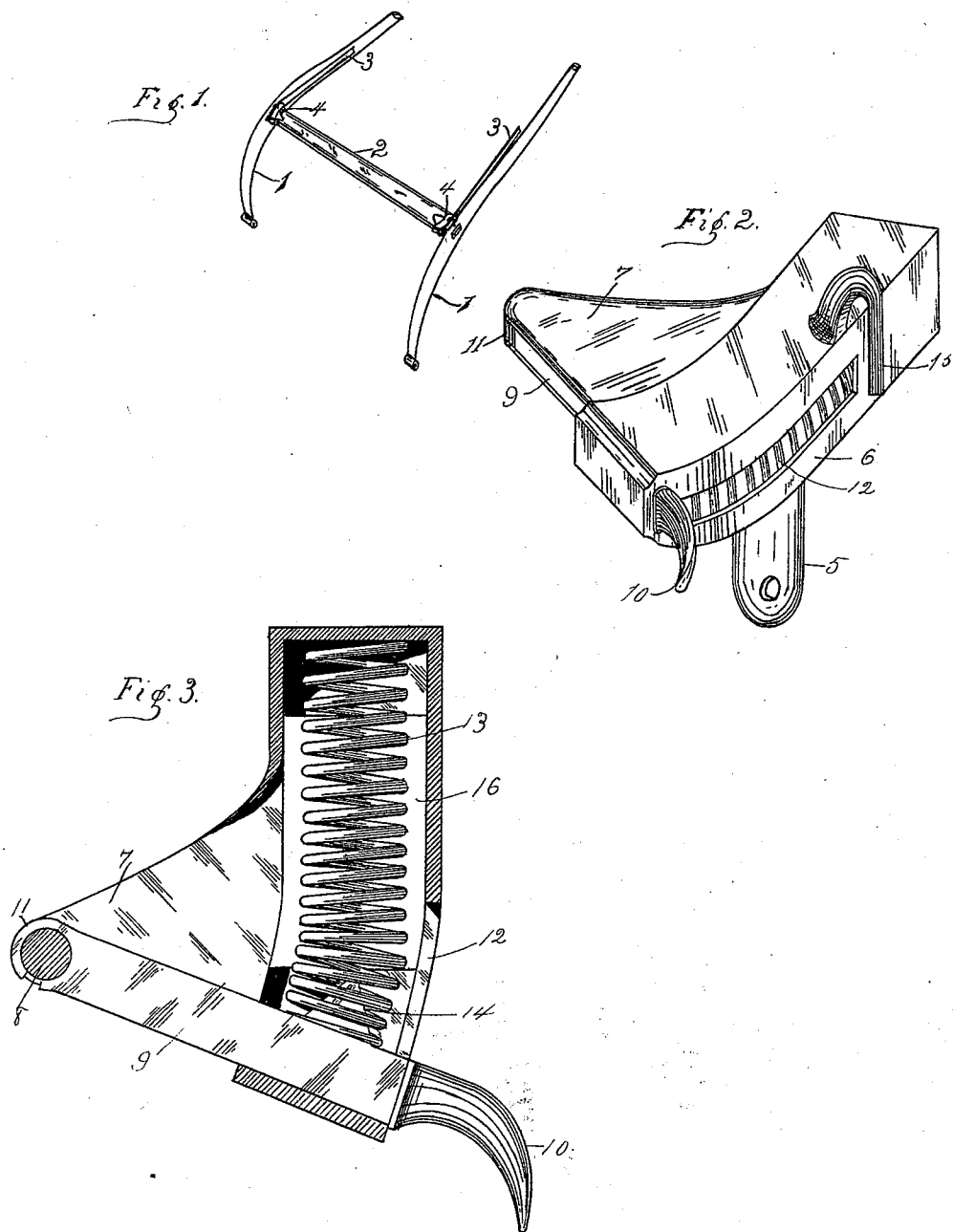


(No Model.)

G. G. F. BOSWELL.
TUG HOLDER.

No. 529,676.

Patented Nov. 20, 1894.



Witnesses

Geo. C. Conner
Lela Monroe

Inventor

George G. F. Boswell
By Attorney W. H. Lockwood

UNITED STATES PATENT OFFICE.

GEORGE G. F. BOSWELL, OF INDIANAPOLIS, INDIANA, ASSIGNOR OF ONE-HALF TO FRANK B. DAVENPORT, OF SAME PLACE.

TUG-HOLDER.

SPECIFICATION forming part of Letters Patent No. 529,676, dated November 20, 1894.

Application filed April 2, 1894. Serial No. 506,100. (No model.)

To all whom it may concern:

Be it known that I, GEORGE G. F. BOSWELL, of Indianapolis, county of Marion, and State of Indiana, have invented certain new and useful Improvements in Tug-Holders; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, in which like numerals refer to like parts.

My invention relates to a tug holder which acts also as a draft equalizer, affording a yielding connection of the tug to the thill.

The objects of this invention are simplicity, durability, cheapness and satisfactory efficiency.

The full nature of my invention will appear from the description following and the accompanying drawings.

Figure 1 is a perspective view of a thill with my attachment mounted thereon, the tugs and the shafts being partly broken away. Fig. 2 is a perspective view of my tug holder. Fig. 3 is a plan view of the same with the upper side of the case removed.

In detail, 1 are the shafts of a buggy thill, 2 the cross bar and 3 the tugs.

4 are my tug holders which are secured to the cross bar by screwing bracket 5 to the back side of the cross bar. Thus the case 6 rests upon the upper side of the cross bar 2, and entirely envelops the other parts of my device. It and the bracket 5 are integral, being preferably cast. The case 6 is stationary and its outer side is slightly curved for one third of its length as seen in Figs. 2 and 3. The case 6 is provided with two laterally extended flanges parallel with each other and connected at their outer ends by a boss 8, the boss, flanges and case all being integral, cast in one piece.

9 is a lever having on one end the tug hook 10 and at the other end having a finger 11 curved about the boss 8 whereby the lever 9 can be rotated on such boss.

At 12 in the case is a slot through which the lever 9 moves. This lever is spring con-

trolled by the spiral spring 13 fitting loosely within the case 6. It is secured to and held in place against the lever 9 by the lug 14 which is integral with the lever and extends inward within the spring. This spring 13 resists the pull of the tug and makes the pull yielding and easy on the horse. On the case 6 is secured a finger 15 which serves as a guide to hold the tug in place, the tug working between the finger and the sides of the case 6. The case is open in the bottom at 16.

It will be observed that my tug holder consists of only three pieces, the case, the lever, and the spring. No part can become detached from the other unless some one detaches it intentionally. No part can become inefficient by any amount of use excepting the spring which can be easily replaced if it ever becomes too weak. It acts by compression and a pull on the tug is a direct pull against the spring. The pull received by the spring is transmitted to the case in front of and in line with the attachment of the case to the thill cross piece.

I have endeavored to make my tug holder simpler, cheaper, more durable, and more efficient than any tug holder prior hereto.

What I claim as my invention, and desire to secure by Letters Patent, is—

A tug holder comprising a casing secured to the thill whose outer face is curved and slotted, a lever pivoted at its inner end to the casing and extending through the slot and provided with a tug hook on its outer end, a spring within such casing adapted to resist a pull on the lever, and a guard finger secured to such casing and adapted to prevent the tug from slipping up over such casing, substantially as shown and described.

In witness whereof I hereunto set my hand this 27th day of March, 1894.

GEORGE G. F. BOSWELL.

Witnesses:

V. H. LOCKWOOD,
G. C. CONNER.