T. SIZER.

BUGGY BOOT SPRING.

APPLICATION FILED APR. 5, 1909.

947,949. Patented Feb. 1, 1910.

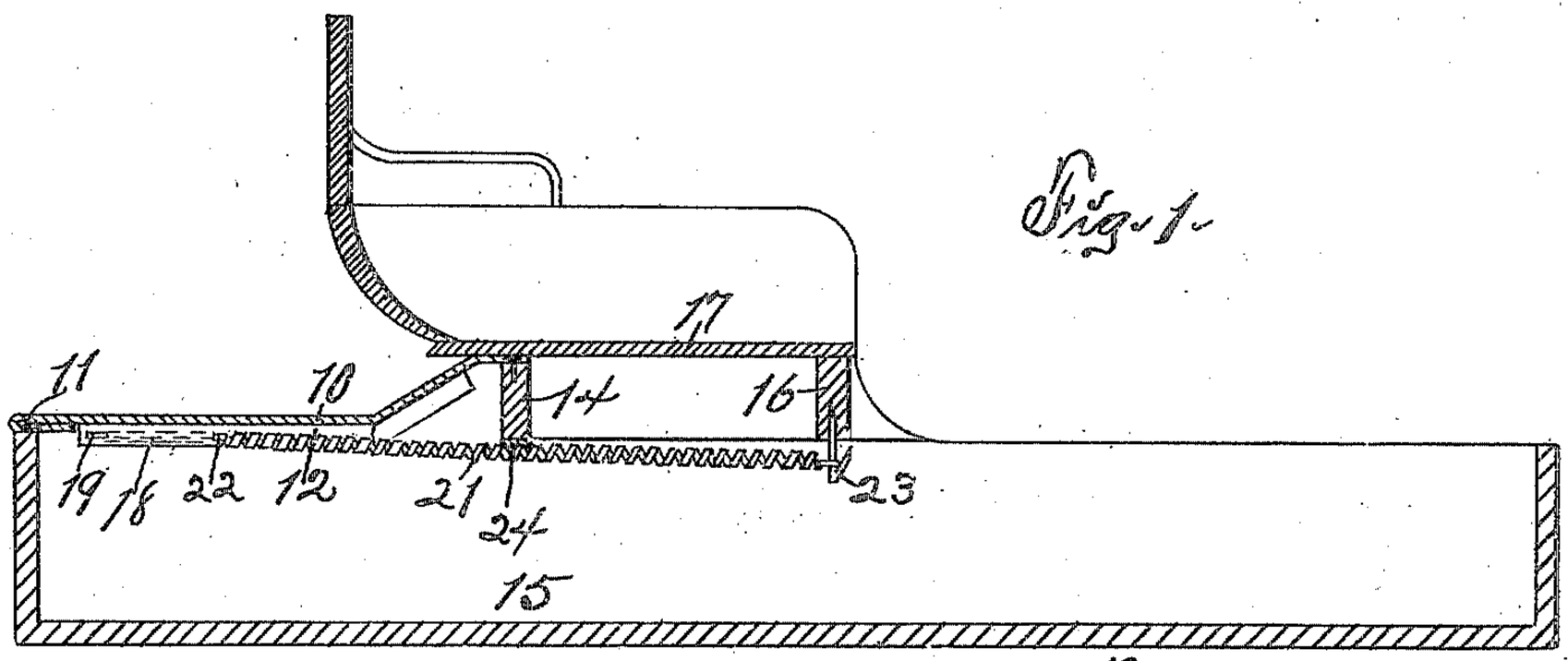


Fig. 1.

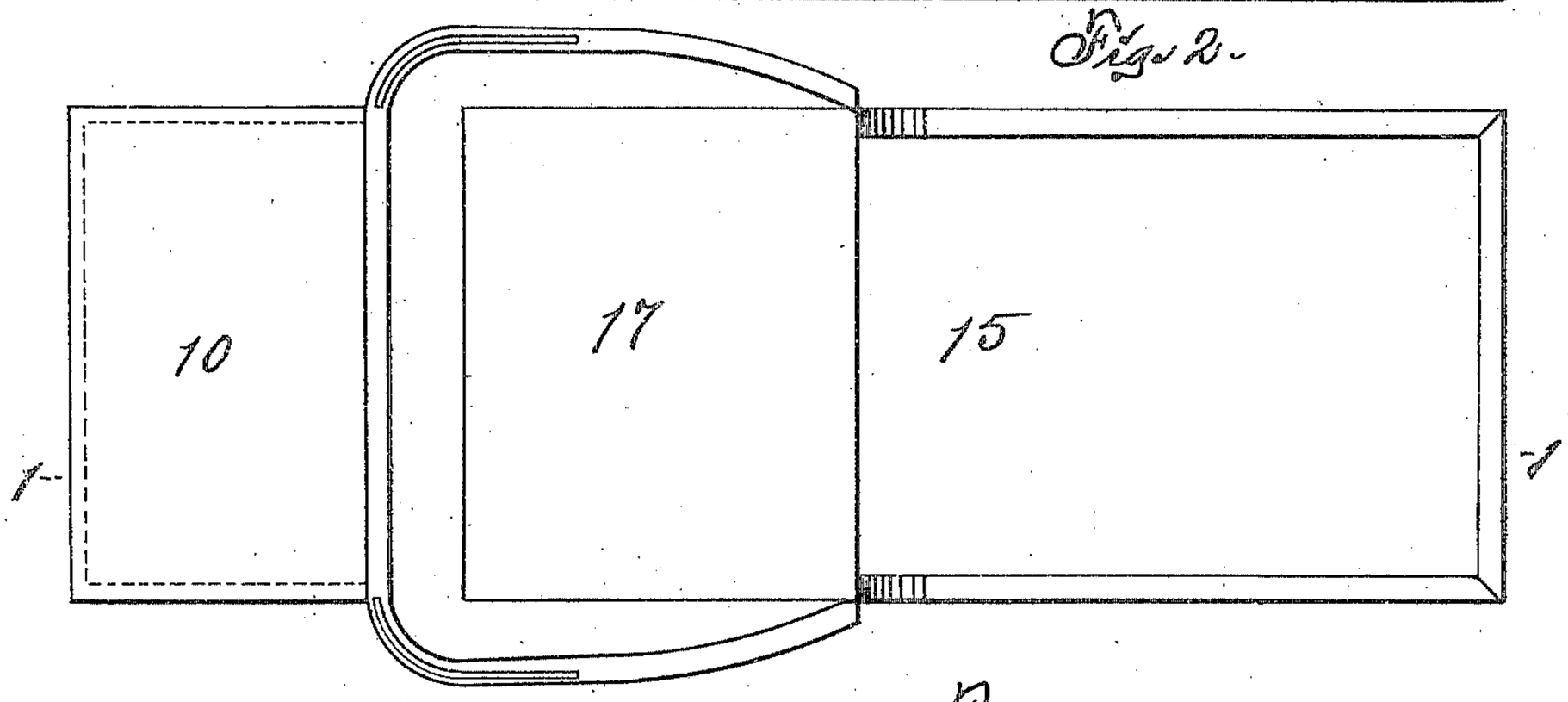
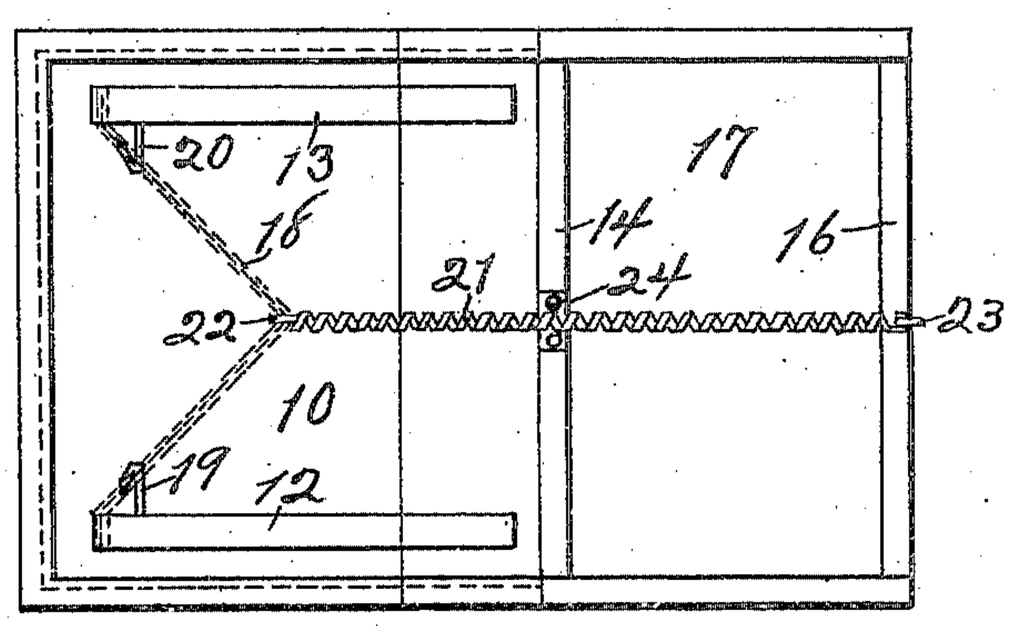


Fig. 2.

Fig. 3.



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UNITED STATES PATENT OFFICE.

THAD SIZER, OF AUDUBON, IOWA.

BUGGY-BOOT SPRING.

947,949. Specification of Letters Patent. Patented Feb. 1, 1910.

Application filed April 5, 1909. Serial No. 488,523.

To all whom it may concern:

Be it known that I, THAD SIZER, a citizen of the United States of America, and resident of Audubon, Audubon county, Iowa, have invented a new and useful Buggy-Boot Spring, of which the following is a specification.

The object of my invention is to provide improved yielding pressure devices for holding a buggy boot in closed position.

A further object of this invention is to provide an improved construction for buggy boots and means for yielding by holding of same in closed position.

A further object of this invention is to provide improved means for adjusting the tension or resilience of yielding pressure devices employed for holding a buggy boot in closed position.

My invention consists in the construction, arrangement and combination of elements hereinafter set forth, pointed out in my claim and illustrated by the accompanying drawing, in which—

Figure 1 is a sectional elevation of the buggy body on the indicated line 1—1 of Fig. 2. Fig. 2 is a plan of the same. Fig. 3 is bottom plan of the boot and seat showing my improvement attached thereto.

In the construction of the device as shown, the numeral 10 designates a boot, preferably made of leather, imitation leather, canvas, or similar material, and provided with a stiffening frame 11 on its side and rear margins. Longitudinal bars 12, 13 are fixed to the lower face of the boot 10 and are curved or shaped as desired to give the proper pitch or inclination to the boot in position. The inward marginal portion of the boot 10 is fixed to the upper margin of a cross bar 14, mounted transversely of the buggy body 15, and said bar 14 and a bar 16 parallel therewith serve as supports for a seat 17. The seat 17 covers the inward portion of the boot 10 and may extend rearwardly therefrom. The side and rear marginal portions of the boot 10 containing the stiffening frame 11 rests on the top of the rear end and rear portions of the sides of the buggy body 15, and the bars or cleats 12, 13 extend into said buggy body. A chain 18 is attached at each end to hooks 19, 20, fixed to and projecting inward from the rear end portions of the cleats or bars 12, 13. The chain 18 preferably is flexed inwardly between the hooks 19, 20 and is detachably connected to said hooks so as to permit of adjustment or change in the degree of flexing. A retractile coil spring 21 is connected by a hook 22 on its rear end to the central portions of the chain 18 and extends inward therefrom across the central portion of the bar 14, and is attached at its forward end to a hook 23, seated in and projecting downward from the central portion of the bar 16. A wear plate 24, preferably made of metal, is mounted on the bar 14 and is adapted to be engaged by the spring 21, to prevent wearing of the said bar by the spring.

In practical use the parts are assembled as shown and the tension of the spring 21 is adjusted by changing the degree of flexure of the chain 18 to the desired extent. When properly adjusted, the spring 21 will hold the boot closed against the top of the rear portion of the buggy body 15. When the boot is opened, by manual force applied to the rear portion thereof in an upward direction, spring 21 is expanded and flexed across the bar 14 thus storing power in said spring, to return the boot to its seat when the lifting force is removed.

I claim as my invention—

A combination of a buggy body, cross bars thereon, a boot hinged to one of said cross bars, cleats on said boot, hooks on said cleats, a chain adjustably attached to said hooks, a spring adjustably attached to said chain, a hook on the foremost cross bar to which said spring is attached, said spring extending across the rearmost cross bar, and a wear plate on said rearmost cross bar adapted for engagement by said spring.

Signed by me at Des Moines, Iowa, this first day of September, 1908.

THAD SIZER.

Witnesses:
W. W. FINK,
S. C. SWEET.