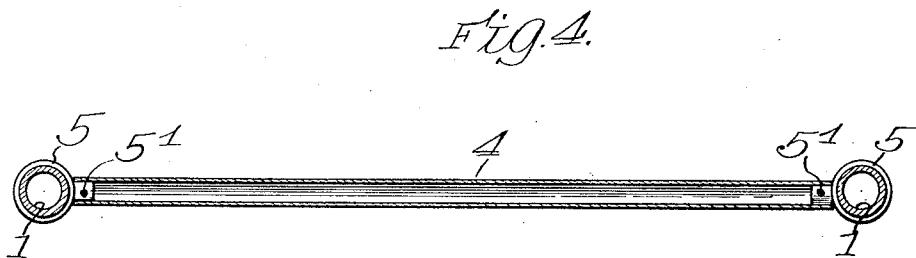
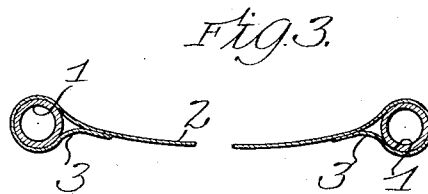
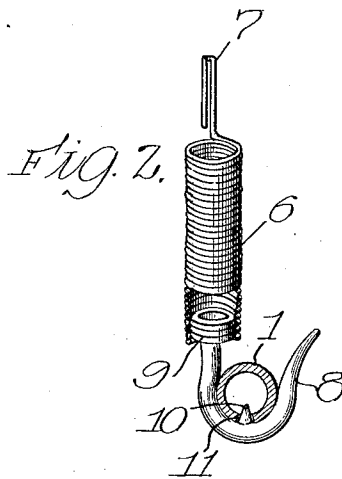
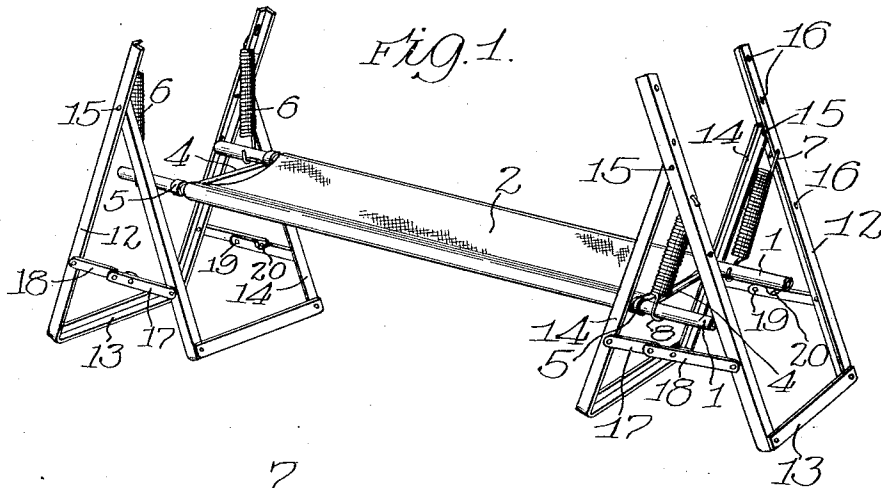


A. E. GOSSO.
ADJUSTABLE FOLDING SPRING COT.
APPLICATION FILED OCT. 12, 1911.

1,120,931.

Patented Dec. 15, 1914.



Witnesses:
G. W. Marcus
R. Bauer

Inventor
Alton E. Goss
BY: Steel & Steel, Attys

UNITED STATES PATENT OFFICE.

ALTON E. GOSSO, OF CHICAGO, ILLINOIS.

ADJUSTABLE FOLDING SPRING-COT.

1,120,931.

Specification of Letters Patent.

Patented Dec. 15, 1914.

Application filed October 12, 1911. Serial No. 654,347.

To all whom it may concern:

Be it known that I, ALTON E. GOSSE, a citizen of the United States, residing at 164 North Central avenue, Austin Station, Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Adjustable Folding Spring-Cots, of which the following is a description.

My invention belongs to that general class of devices known as cots or the like, and relates particularly to a spring or resiliently supported cot, that may be quickly and easily set up and adjusted to suit the requirements of the user, or folded in small space when not in use.

The device is particularly adapted for use in hospitals, police stations, schools, coal mines, factories, and on ambulances, and all common carriers, such as railway trains, boats, and the like, for caring for the sick or injured, and is suitable for use in the above mentioned places or on the porch or lawn for resting or other purposes.

The invention has among its objects the production of an improved device of the kind described that is simple, convenient, durable, efficient, sanitary and satisfactory, for use wherever found applicable, and particularly the production of a device that can easily and quickly be set up for use or taken apart and compactly folded for storage or transporting; that may be adjusted to meet the requirements of the occupant, and that will support the occupant comfortably and without jar or shock while being carried or used on any vehicle or carrier.

To this end my invention consists in the novel construction, arrangement and combination of parts herein shown and described, and more particularly pointed out in the claims.

In the drawings, wherein like reference characters indicate like or corresponding parts:—Figure 1 is a perspective view of my improved device. Fig. 2 is a perspective view and partial sectional view of one of the spring members. Fig. 3 is a cross sectional view of the body part. Fig. 4 is a cross sectional view of the same through one of the spreader bars.

Referring to the drawings, my preferred form of cot comprises what may be termed

a bed part, which resembles to some extent, and may be termed a stretcher, and suitable folding and adjustable supports for carrying the bed part when the device is in use. The bed part preferably comprises a pair of side bars 1, 1, which support a carrier, and a body part 2 of canvas or other suitable material. The canvas part 2 may be secured to the side bars 1, 1 in any suitable manner. As shown, the edges 3 are extended over and secured so as to form what may be called a tube on each side, through which the side bars 1 may be inserted. The side bars are spaced and maintained apart by a spreader bar 4, arranged at each end, the same being formed with a suitable loop 5, or the equivalent, arranged to embrace the bars. The side bars 1, 1, and spacing bars 4, 4 may be made of any suitable material, preferably tubular steel, the spacing bars being provided with the looped ends 5 secured to the same by pins 5', or the equivalent.

The bed is supported by a plurality of coiled springs 6, each having a hook 7 for engagement with a suitable support, and with a hook 8 arranged to embrace and carry the side bars, a hook at each corner of the bed ordinarily being all the springs required for the purpose. While each of the hooks 8 may be formed substantially similar to the hooks 7, I preferably make the same of suitable material, and separate from the springs, and with a thread 9 arranged to engage with the coils on the spring, and provide an extended lug or projection arranged to enter a hole 11 in the side bar. The lug and hole arrangement prevent the side members from slipping out of the hooks or becoming disengaged.

Each stand shown comprises a U-shaped member having legs 12, 12, preferably of angle bar formation and connected as at 13, and a similarly formed U-shaped member having legs 14, 14, preferably of angle bar formation, which are pivotally connected to the legs 12 intermediate the ends of the latter at 15. One of said U-shaped members is preferably smaller than the other, as illustrated whereby the legs of one may fold within the legs of the other, so as to offer substantially no obstruction beyond the enlarged or outer member when the members

are in collapsed condition. One pair of legs, as shown the legs 12, are provided with a plurality of holes 16, so that the hooked ends 7 of the springs 6 may be hooked in and the side bars supported at the desired height. To prevent the supports from being accidentally folded, or from collapsing, I provide adjacent the base of the U-shaped members suitable braces, which, in the construction shown, are arranged to fold and comprise the parts 17 and 18, each having an end pivotally secured to one of the leg parts of the support and pivotally connected together at 19, one part being provided with a depression and the opposite part with a pin 20, so that they support themselves at their pivotal connection. Any equivalent form of brace may be employed, but the form shown prevents the legs from spreading or from moving together.

In setting up the device, the supports are set up the desired distance apart and locked by the braces. The hooks 7 on the springs are then inserted in the desired hole 16, the position of the same depending upon the condition of the patient or the desire of the user of the device. If the side bars 1 are not in the position in the tubes at the sides of the canvas carrier or body part 2, they are inserted in the same. The spreader bars 4 are then positioned substantially as shown so as to spread the canvas 2 and maintain the bars 1 spaced, or in operative position. The bed part may then be placed upon the springs, the same being arranged so that the lugs 10 enter the holes 11 in the side bars. By providing a plurality of holes 16, the ends of the bed part may be supported at the same height, or one end may be raised, enabling the head or feet to be raised above the opposite extremity. The manner of folding up the device and taking it apart will be obvious from the above description of setting it up, the operations being simply the reverse.

The device is particularly adapted and valuable for giving first aid to the injured, since it affords a comfortable and practical method of carrying the sick or injured by the device. Any common wagon, truck, or other vehicle, may be used for handling a patient with a greater degree of comfort than the most up to date ambulance, and without requiring the time necessary to wait for an ambulance to be called and reach the patient. When used in this way supports may be set up in the wagon, or other vehicle, and the bed part used as a stretcher to carry the patient to the wagon. The patient may be placed upon the stretcher by removing one of the side bars, and rolling or sliding the patient on the canvas, after which the side bar may be inserted and the device used as a stretcher, as mentioned.

While the vehicle is moving the patient

is carried in the most desirable way by the carrier and springs, and when it is desired to remove the patient the bed part may be removed from the support and springs, and again used as a stretcher. The above is merely one of the many uses of the device, but I mention particularly the use of the same because of the crude and extremely poor facilities that were known prior to my invention for the handling and carrying of the sick and injured in emergency cases, even with ambulances.

Having thus described my invention, it is obvious that various immaterial modifications may be made in the same without departing from the spirit of my invention, hence I do not wish to be understood as limiting myself to the exact form, construction, arrangement and combination of parts herein shown and described, or uses mentioned.

What I claim as new and desire to secure by Letters Patent is:—

1. In a cot, a supporting stand for one end thereof comprising two substantially U-shaped members, each member having side arms formed of angle bars and a transversely extending arm forming a base for the side arms and adapted to engage a surface, one of said U-shaped members being slightly larger than the other whereby one may fold within the other, and the side arms of the smaller member being pivotally connected at its upper end to the side flange of the cooperating member at a point intermediate the ends of the latter, hinged bracket members projecting between the side arms of the cooperating members at a point adjacent the base members thereof, the enlarged U-shaped member having a series of vertically spaced apertures, and coil springs each terminating at its upper end in a hook to engage any of said apertures and projecting downwardly between the cooperating U-shaped members and having at its lower end a U-shaped support adapted to receive one end of a stretcher or the like.

2. A combined collapsible support and stretcher comprising end supports or standards, each consisting of a pair of pivotally connected U-shaped angle iron brackets, one of which brackets being slightly smaller than the other whereby when collapsed they interfit, releasable brace members for holding the brackets extended, the base of said brackets being adapted to rest on a surface, one flange of the outer bracket having a series of vertically spaced openings, a stretcher disposed between the end supports comprising oppositely arranged elongated side arms and transversely extending stay rods spaced from the ends thereof, a flexible covering stretched between and overlying said side arms, the covering at its ends terminating in a point whereby the said

arms have an unobstructed elongated extension, a yieldable hanger for each of said side arms, said hanger having a hook at the upper end to detachably engage any one
5 of said openings in the flange of the outer bracket, said yieldable hanger also having a hook to engage over the unobstructed ex-

tension end of said arms, and an interlocking engagement between said last mentioned hook and said side arm extension.

ALTON E. GOSSO.

Witnesses:

GUSTAVE T. HETZE,
RALPH B. WOOLSEY.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."