

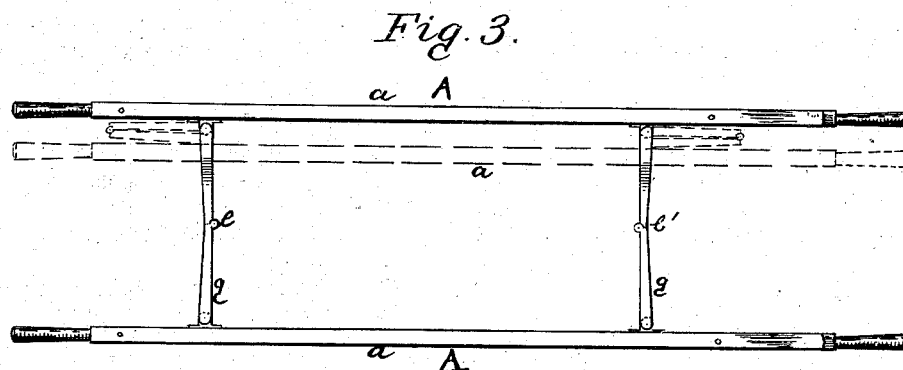
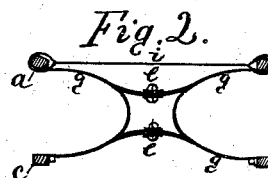
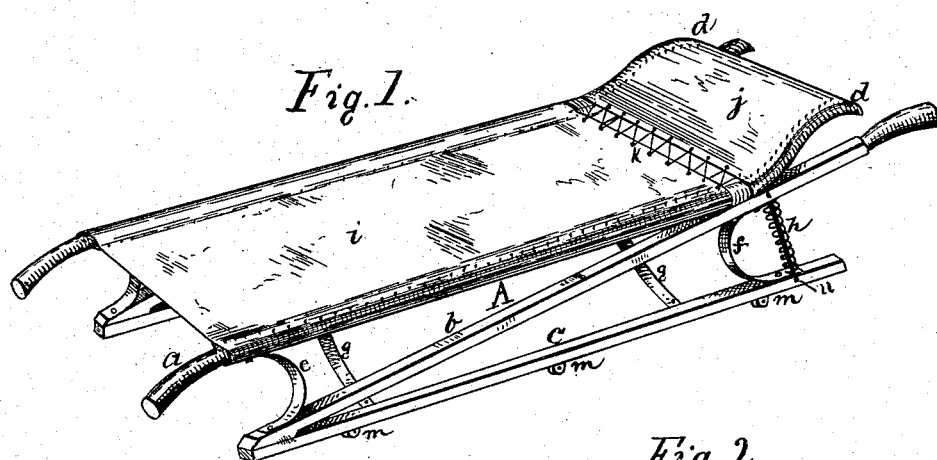
(No Model.)

R. H. SHANNON.

COMBINED ELASTIC AND SPRING STRETCHER.

No. 263,819.

Patented Sept. 5, 1882.



Witnesses:

George D. Hubble

Inventor.

Richard Hyland Shannon

UNITED STATES PATENT OFFICE.

RICHARD H. SHANNON, OF BRIDGEPORT, CONNECTICUT.

COMBINED ELASTIC AND SPRING STRETCHER.

SPECIFICATION forming part of Letters Patent No. 263,819, dated September 5, 1882.

Application filed May 4, 1882. (No model.)

To all whom it may concern:

Be it known that I, RICHARD HYLAND SHANNON, a citizen of the United States, residing at Bridgeport, in the county of Fairfield and State of Connecticut, have invented a new and useful Combined Elastic and Spring Stretcher, of which the following is a specification.

My invention relates to improvements in stretchers in which I combine an elastic frame-work, to which is attached canvas for the support of the body, in the usual form, and a supplemental piece of the same drawn over arms of a curve, so that it will form a continuous support to the shoulders, neck, and head, performing the functions of a pillow, the frame-chords connected with springs that operate in a vertical and latitudinal direction insuring against jolts or jars in carrying, an elastic straining of the canvas and casters attached to the lower chords of the frame for convenience in moving about. I attain these objects by the mechanism illustrated in the accompanying drawings, in which—

Figure 1 is a perspective view of the stretcher. Fig. 2 is a front view of the stub-jointed stretching-spring. Fig. 3 is a top view of the frame opened and closed.

Similar letters refer to similar parts throughout the several views.

The frame for the stretcher is made of wood in three pieces, connected together in a Z form, secured together at the points 1 and 2, the upper chords, *a* and *a*, having the lifting-handles on one end, the opposite end curved upward to raise the canvas for the pillow. These chords are nicely rounded on their outer edges for the canvas-covering. The center diagonal portion of the frame *b* has a handle worked on its outer end, the other beveled to fit the lower chord, *c*, and the three parts are bolted together. At each end of the lower chords, *c*, *c*, are secured the plate-springs *e* and *f*, the chords *a* and *a* resting on the top of these springs. Under the head portion of the stretcher a stop-rod, *n*, is set rigid in the lower chord, *c*, and a recess in the under side of the diagonal tie *b* receives its upper end, allowing of working on the rod till the weight of the body will overcome the power of the springs, when it will rest on the rod. Around this rod is placed the spiral spring *h*, to compensate for the extra weight of the body at that end of the

stretcher. To separate the frames A and A the stub-jointed H-formed springs *e* are attached to the ends *g g*, connected with the chords *a a c c* with swivels, the center joint so set that the springs will fold toward the center when the stretcher is folded for stowage. The casters *m m* are secured to the under side of the chords *c c*, to assist in moving the stretcher into an ambulance or about the room when occupied. The canvas *i* and *j* has both edges turned under and securely sewed together, leaving a pocket to slide over the chords *a a* and curved projections *d d*. At K eyelets are worked in the canvas *i* and *j*, and the two parts are laced together.

I do not restrict myself to the use of the springs *e*, *f*, and *h*, but can add others between these, if desired, to regulate the elasticity of the frame.

I do not claim as new the attachment of a piece of canvas to the frame to form a pillow.

My invention consists in the curved form of the chord *a* at *d*, whereby I secure an easy gradual rise to the canvas, that will fit under the shoulders, neck, and head with comfort to the occupant.

It will be readily seen that the separating-springs *e* will allow of a quick and easy adjustment of the stretcher for use, or for its being readily folded up for stowage or transportation.

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

1. The Z-formed frames A, composed of the chords *a* and *c* and the diagonal tie *b*, with the springs *e*, *f*, and *h* and the stop-rod *n*, the casters *m m*, when combined as and for the purpose specified.

2. The stub-hinged jointed separating-springs *e e*, in combination with the frames A A, when arranged and operated as described and set forth.

3. The combination of the Z-formed frames A A, with the springs *e*, *f*, and *h*, the stub-hinged jointed springs *e e*, the curved projections *d d*, and the canvas *i* and *j*, when arranged as described and shown.

RICHARD HYLAND SHANNON.

Witnesses:

E. P. CURTIS, Jr.,

GEORGE L. HUBBELL.