May 31, 1927. 1,630,948

E. KARIKAS

LIFE SAVING DEVICE

Filed March 6, 1926

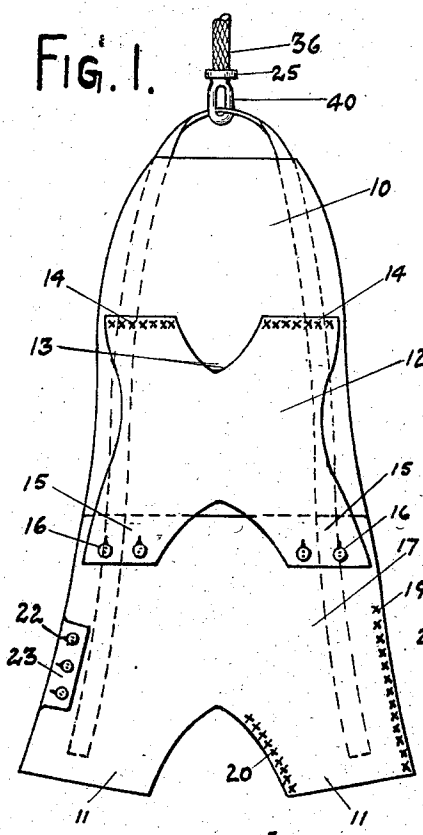



FIG. 1.

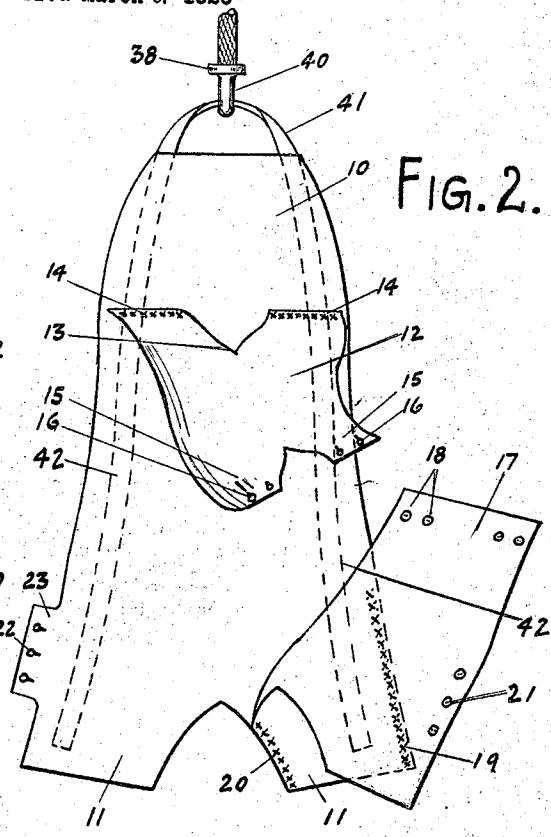



FIG. 2.

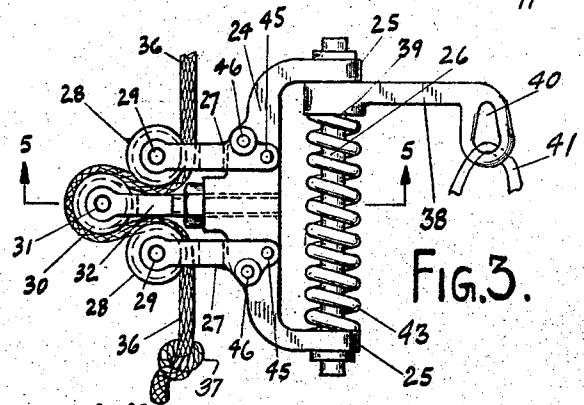



FIG. 3.

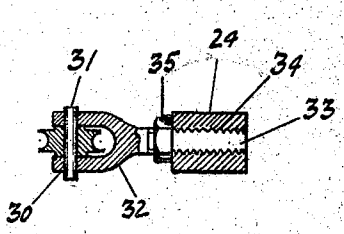



FIG. 5.

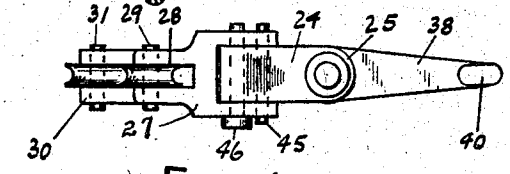



FIG. 4.

INVENTOR

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BY

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# UNITED STATES PATENT OFFICE.

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## LIFE-SAVING DEVICE.

Application filed March 6, 1926. Serial No. 92,910.

This invention relates generally to life saving devices used in case of fire in buildings, the invention having more particular reference to a novel type of life saving device, which will allow the wearer to descend from the upper stories of a building without injury.

The invention has for an object the provision of an improved life saving device which will permit the wearer to descend from the upper stories of a building at a relatively slow rate of speed, so as not to injure the person, using my improved device.

Another object of the invention is the provision of a means of preventing a shock to the user, when reaching the ground.

For further comprehension of the invention, and of the objects and advantages thereof, reference will be had to the following description and accompanying drawing, and to the appended claims in which the various novel features of the invention are more particularly set forth.

Fig. 1 of the drawing is a front elevational view of my improved life saving suit.

Fig. 2 is a similar view, but showing my improved life saving suit unbuttoned, as it would appear when ready to be worn.

Fig. 3 is a side elevational view of the supporting member thereof.

Fig. 4 is a top plan view of the parts as shown in Fig. 4.

Fig. 5 is a sectional view taken on the line 5—5 of Fig. 3.

As here embodied my improved life saving device comprises a suit, of any suitable heavy material, such as canvas or the like, consisting of a body element 10, of suitable size and shape to extend across the back of the wearer, and having leg portions 11. The upper front element 12 is provided with a notched portion 13, to accommodate the head and neck of the wearer, and is sewn, stitched, or otherwise attached adjacent to the notched portion 13, to the front of the said body element 10, as at 14, and is provided with extended lower portions 15, having button holes 16, or any similar suitable means of attaching same to the buttons 18 of the leg element 17. The leg element 17, is sewn, stitched, or otherwise attached to one side of the body element 10, as at 19, and is also similarly attached to the inner adjacent edge of the leg portion 11 of the body element 10, as at 20, and is provided with buttons 21, or any similar suitable means, of attaching same to the button holes 22, or any similar suitable means, attached to the flap 23 of the opposite leg portion 11 of the body element 10. The above mentioned and described construction being such as will support a person in a suspended position.

The supporting member comprises a bracket 24, provided with upper and lower projecting elements 25, at right angles thereto, to accommodate the pin 26, which is rigidly attached thereto. The bracket 24, is also provided with the yoke elements 27, pivoted thereto, as at 45, and projecting therefrom and held in an extended position by pins 46, and in an opposite direction to the said upper and lower projecting elements 25, the pulleys 28, are rotatively mounted on the pins 29, rigidly mounted in the yoke elements 27. The pulley 30, is rotatively mounted on the pin 31, rigidly attached to the adjustable yoke member 32, which is provided with a threaded extremity 33, to engage a threaded aperture 34 located in the said bracket 24, preferably in a central position between the said upper and lower projecting elements 27. As a means of holding the said adjustable yoke 32, in any desired extended position, I have provided a lock nut 35. The above mentioned construction being such as will loop the rope 36, when extended around the two pulleys 28 and the pulley 30, as clearly shown in Fig. 3, of the accompanying drawing. It being understood that the relative position of the pulley 30 may be varied by the adjustable yoke 32, so as to increase or decrease the looping of the said rope 36. It being further understood that the rope 36, is tied, or otherwise fastened at or near the window of a building, and is of suitable length to reach nearly to the ground and is provided with a knot 37, or any suitable means to stop the hereinbefore mentioned supporting member.

The attaching member 38 is slidably attached, at one extremity to the said pin 26, as at 39, and is provided with an eye 40, at its free extremity to receive the projecting strap 41, which is sewn, stitched, or otherwise attached to the body element 10, as at 42, the said strap 41, extending substantially the entire length of the said body element 10, it being understood, that the attaching member 38, is therefore not detachable, so as to

prevent misplacing of my improved life saving suit. It will be further understood that the coil spring 43, is positioned on the pin 26, so as to normally hold the attaching member 38 in an upper extended position, it being also understood that when the supporting member strikes the knot 37 in the rope 36, that the spring 43, will cushion the shock, or jolt, it being fully understood that the feet of the wearer of my improved life saving suit, will be nearly to the ground.

While I have above described the preferred form, construction, and arrangement of the several elements employed, it will be understood that the device, is, nevertheless, susceptible of considerable modification therein, and I therefore reserve the privilege of resorting to all such changes as may be fairly embodied within the spirit and scope of the invention as claimed.

Having thus described my invention, what I claim as new and desire to protect by Letters Patent of the United States is as follows:

1. In a device of the class described, a supporting member comprising a bracket, provided with upper and lower extending elements at right angles thereto, to accommodate a pin rigidly attached thereto, said bracket provided with yoke elements pivoted thereto and extending therefrom in opposite directions to the said upper and lower extending elements, and held in an extended position by pins, pulleys rotatively mounted on pins rigidly mounted in the said yoke elements, a pulley rotatively mounted on a pin rigidly attached to an adjustable yoke member provided with a threaded extremity to engage a threaded aperture located in the said bracket, in a central position between the said upper and lower extending elements, said threaded extremity provided with a lock nut, so as to hold the said adjustable yoke in any desired extended position.

2. In a device of the class described, the combination with a yoke of means for resiliently supporting a life-saving bag thereon, of spaced arms pivotally mounted on said yoke, pulleys journaled on the outer ends of said arms, a rod screw threaded into said yoke midway between said spaced arms, a pulley journaled on the end of said rod, means for adjustably holding said rod in an adjusted position, and a rope guided by engagement of its outer surface with said spaced end pulleys and by engagement of its inner surface with said intermediate pulley, said intermediate pulley being adjustable to regulate the speed of passage of said rope through said series of pulleys.

In testimony whereof I have affixed my signature.

ELIZABETH KARIKAS.