Nov. 15, 1949 C. A. STEWART 2,488,072

GARMENT HANGER AND CREASER

Filed Jan. 2, 1945

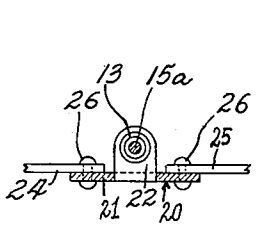


Fig. 5

Fig. 1

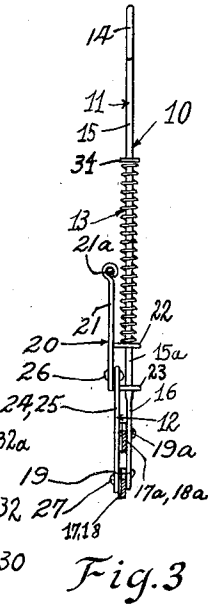


Fig. 3

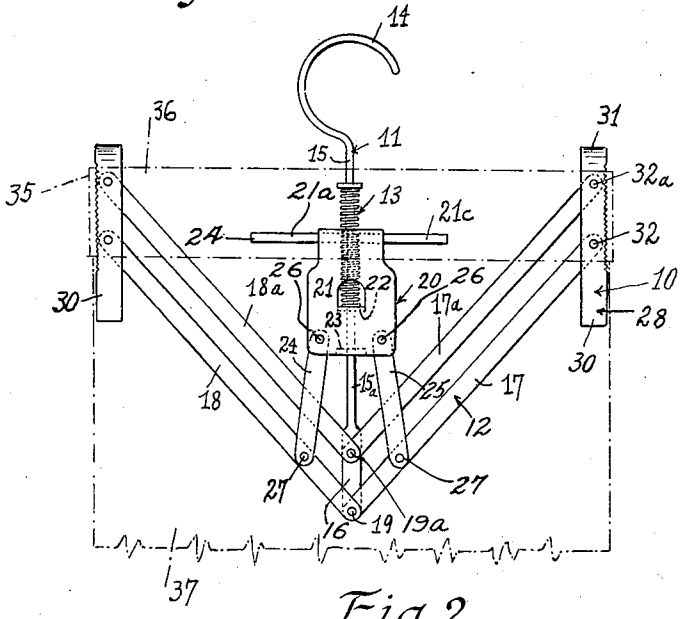


Fig. 2

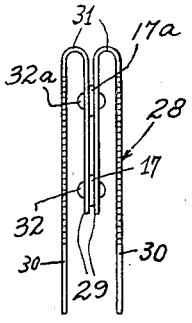


Fig. 4

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GARMENT HANGER AND CREASER

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1 Claim. (Cl. 223—95)

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This invention relates to garment hangers, and it is an improvement on the automatic self adjusting trousers hanger and creaser for which Letters Patent of the United States have been granted and issued to Emery Hegedus, dated October 21, 1941, No. 2,259,692.

My device operates entirely in the same manner as that of said Letters Patent to Emery Hegedus, No. 2,259,692, and it is almost entirely constructed in a similar manner, with the important and inventive difference, however, that provisions are made in the construction for a more even and reliable movement of the parts, and for an easier and more efficient use and operation of the device.

Instead of one single pivoted arm at each side of a garment hook, I employ two such pivoted arms, which are arranged in such a manner that they will remain parallel to one another in every position of the device, whereby not only do they insure a more steady and reliable movement, but they also insure that the vertical elements at their ends, which are the trousers presser proper in the Hegedus device, will always remain in a true vertical position, which is the position for their operation within a pair of trousers, and into which position in the Hegedus device they may have to be set by hand.

In my improved garment hanger and creaser, efficient means are also provided for contracting the device before inserting it into a pair of trousers, as against the awkward contracting thereof in the original Hegedus patent wherein the device is put into a narrowed position by grasping its pivoted arms and pulling them upwardly.

I may remark that not only my device but also the original device of said patent may be used for other garments than trousers, where it is indicated.

In the drawings forming a part of this specification and accompanying the same:

Fig. 1 is a rear view of my trousers hanger and creaser in an inoperative, fully expanded position;

Fig. 2 is a similar view but in a contracted position, as when applied into a pair of trousers, which are indicated in an imaginary manner by dot and dash lines;

Fig. 3 is a partly sectional end view, the section being taken on the line 3—3 of Fig. 1;

Fig. 4 is a fragmentary end view showing the trousers creaser member proper of my device, and

Fig. 5 is a fragmentary sectional view, the section being taken on the line 5—5 of Fig. 1.

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Referring now to the drawings more in detail by characters of reference, my trousers hanger and creaser is generally indicated by the numeral 10 and is composed of three main elements, namely, a central relatively stationary hook device proper 11, a link mechanism 12 at the lower end of said hook device, and a coil spring 13 between said stationary hook device and the movable link mechanism 12.

The hook device 11 has the usual hook 14 at its upper end, whereby the trousers hanger and creaser may be suspended from a bar in a closet or from any appropriate element, as usual. Hook 14 is continued in a stem 15, the lower end of which is made flat and wide, as at 16.

Right hand and left hand parallel arms 17 and 17*a*, and 18 and 18*a*, respectively, are pivoted at the lower end of the flat portion 16, as indicated at 19 and 19*a*.

A slidable element 20 is arranged on the lower part 15*a* of the stem 15, said element being composed of a vertical plate 21, from which is separated and forwardly bent a projecting upper ear 22, and at the lower end of which is provided a similarly transversely projecting lower ear 23, in the center thereof, said ears having appropriate registering holes through which the stem portion 15*a* passes, whereby the plate 21 may slide upwardly or downwardly on the stem 15.

Left hand and right hand link members 24 and 25, respectively, are arranged between the sliding plate 21 and the respective left hand and right hand arms 18 and 18*a*, and 17 and 17*a*, upper and lower pivots 26 and 27 being arranged between said link members, the sliding element 20, and the arms 17 and 18, respectively. It will be observed that the link members 24 and 25 and upper arms 18*a* and 17*a* are not connected but free of each other. The upper end of the plate 21 is curled and a wire 21*a* is secured thereinto.

A down hanging double fork member 28 is pivotally secured at the outer end of each pair of parallel arms 17 and 17*a*, and 18 and 18*a*, said double fork member being formed of two inner branches 29 and two outer branches 30, the respective branches being connected by the curved upper portions 31, and preferably being made of one integral bent metal piece. The inner branches 29 are somewhat separated, and the outer ends of the respective arms 17 and 17*a*, and 18 and 18*a*, are pivotally arranged therebetween, as indicated at 32 and 32*a*. The outer branches 30 may have teeth or serrations 33 at their outer edges. The lower end of the coiled spring 13 is resting against the upper ear 22 on

the sliding plate **21** while its upper end is secured to the stem **15**, as at **34**.

The use and operation of my device is practically obvious from the said patent to Emery Hegedus, No. 2,259,692, and from the drawings and description offered hereinbefore, but I want to offer the following remarks to more clearly explain the same:

When it is desired to use my device and to secure a pair of trousers thereon, the two pairs of parallel arms **17** and **17***a*, and **18** and **18***a*, thereof, will be swung upwardly, as indicated by the arrows **17***b* and **18***b*, and my device will assume the position as generally indicated in Fig. 2.

For the contracting of the device, that is, swinging the two pairs of arms upwardly on their central pivots **19** and **19***a*, the user will hook the fingers of one hand undereath the side extensions **21***b* and **21***c* of the sliding plate wire **21***a*, and will exert an upward pull thereon, as indicated by the arrow **21***d*.

In the mentioned resulting position, spring **13** will be compressed to a desired degree, depending on the amount of upward swing for the arms **17**, **17***a*, and **18** and **18***a*, and, naturally, spring **13** will have a strong tendency to push the sliding element **20** downwardly, and thereby return the arms **17**, **17***a*, and **18**, **18***a*, to their normal, more or less horizontal position, as will be obvious.

In the position indicated in Fig. 2, which I may call the compressed or folded position, the four branches **30** of the two outer elements **28**, of my device will be inserted in the respective four creases **35** of the lower outer ends **36** of the pair of trousers **37**, as indicated in Fig. 2, and thereupon the retaining hold on the sliding plate **21** and therethrough on the arms **17**, **17***a*, and **18**, **18***a*, will be released, and the arms will be swung outwardly under the pressure of the spring **13**, members **30** being tightly pressed into the respective creases, and firmly suspending the trousers on the device through said pressure and through the friction between the outer teeth or serrations **33** on the members **30** and the material of the trousers.

When it is desired to remove the trousers from the hanger, the outer members **28** will be moved inwardly, by again pulling plate **21** upwardly and swinging the arms **17**, **17***a*, and **18**, **18***a*, in an inward direction.

It will be seen that the arms in each pair, **18** and **18***a*, and **17** and **17***a*, will move parallel with one another in every position of the device, and that, as has been mentioned, the members **28** engaging the creases in the trousers ends, will always remain automatically vertical and secured in that position, which, of course, greatly facilitate the insertion of them into or removal from the trousers.

It is also obvious that instead of the pivots **27** being on the lower arms **17** and **18**, the upper arms **17***a* and **18***a* may be pivoted to the link members **25** and **24**, respectively, in which case, of course, said link members may be made shorter, reaching to the upper arms **17***a* and **18***a* only.

I also may additionally improve my device by making the part **34**, the purpose of which is to serve as the upper securing for the coil spring **13**, into a rest for the thumb of the hand, the two fingers of which may be hooked underneath the extensions **21***b* and **21***c*, and thereby provide comfortable and easy means to operate my device with one hand.

It also will be seen that the sliding element **20** may be made of many other shapes and forms to serve its purpose in my device as a pulling means, the preferred construction is the one shown, which may be bent and stamped out of one piece of sheet material, practically with one operation, in an efficient and economical manner.

Finally, I may remark that rubber or similar frictional sleeves may be applied on the members **30**, or an appropriate liquid or paste coating provided thereon which solidifies upon application for a frictional engagement with the trousers.

While I have shown and described preferred embodiments of my invention, I do not want to limit thereby the scope of my invention, and it is understood that changes and variations may be resorted to in the elements and combinations, and I reserve my rights to all such changes and variations, which are within the spirit of this specification, and the scope of the claim hereunto appended.

What I claim as new and want to protect by Letters Patent of the United States is:

In a garment hanger having a suspension device with a downwardly extending stem, a plate with an ear projecting from its plane having an aperture therein whereby it may slide on said stem, a coiled spring around the stem its upper end secured thereto and its lower end pressing on said ear, an arm at each side of the lower end of said stem and pivotally secured thereto, a transverse member pivoted at the end of each arm, and a link member pivoted at each side of said plate, the lower ends of said link members being pivoted to the arm on the respective side of the hanger, the combination therewith of, a portion for said plate extending upwardly from said ear, the upper margin of said portion being curled and a transverse rod secured within said curled margin, the ends of said rod extending beyond said plate to serve as grips for the fingers of the user.

CHARLES A. STEWART.

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The following references are of record in the file of this patent:

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