Nov. 4, 1930. K. FRANCSICS 1,780,153

TROUSERS HANGER

Filed Oct. 16, 1928

Fig. 1

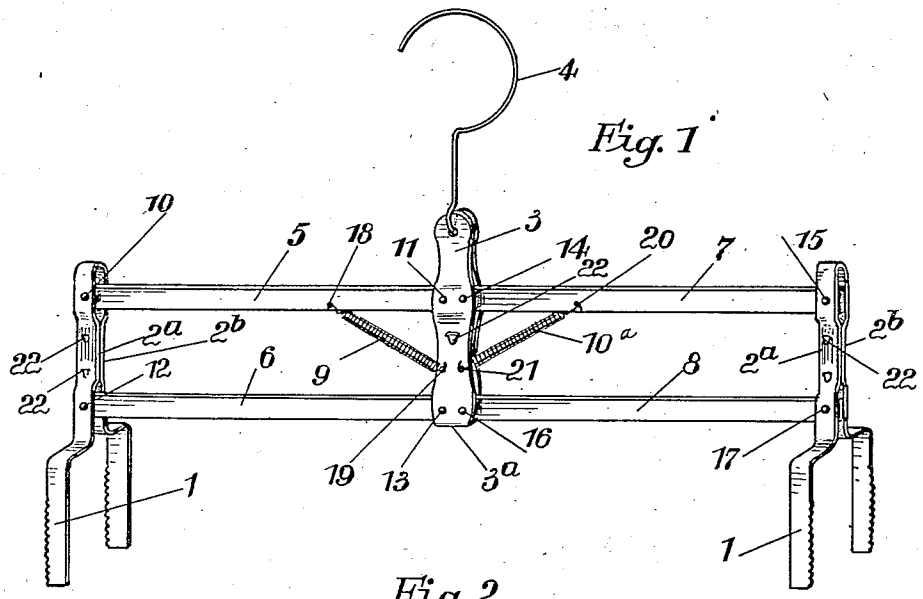


Fig. 2

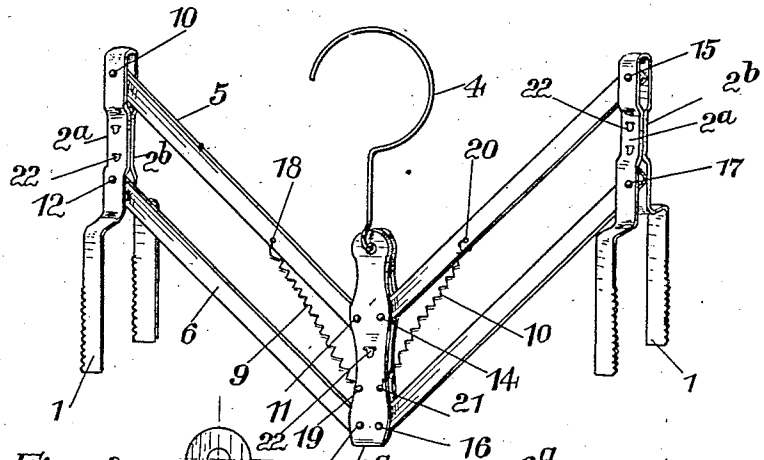


Fig. 3

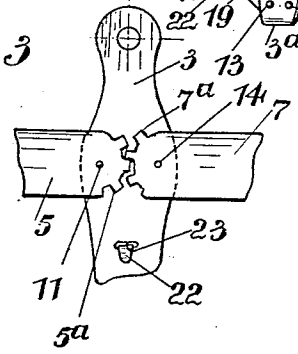
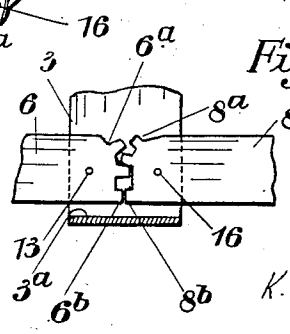


Fig. 4



K. Francsics
INVENTOR

By: Mark Clark
Atty.

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UNITED STATES PATENT OFFICE

KARL FRANCSICS, OF BUDAPEST, HUNGARY

TROUSERS HANGER

Application filed October 16, 1928, Serial No. 312,889, and in Hungary August 2, 1928.

This invention relates to a device which is adapted for suspending trousers and is of that type wherein stretching forks or bifurcated members are inserted in the lower ends of the trousers legs, the distance between the bifurcated members being variable. The forks or bifurcated members are carried by and can be adjusted to the actual measurements of the lower ends of the trousers legs by means of two guiding devices each including the legs of the stretching members and two parallel rods which are pivoted thereto and to a central suspending rod permitting a plurality of parallel positions of the stretching members. According to the invention, the bifurcated stretching members may be moved simultaneously parallel to one another under spring action.

The guiding devices ensure in addition to a constant maintenance of the parallel position of the bifurcated stretching members a simultaneous movement of the latter and moreover the dead weight of the suspended trousers effects the simultaneous spreading apart of the bifurcated members or increases the stretching and ensures the spreading of the bifurcated members together with the elastic elements such as helical springs or rubber bands connecting the rods of the guiding devices.

Other objects as well as the nature, characteristic features and scope of the invention will be more readily apparent from the following description taken in connection with the accompanying drawings and pointed out in the claims forming a part of this specification.

A constructional form of the invention is shown by way of example in the accompanying drawing.

Figure 1 is a side elevation of the device in the outer limit position of the rods of the guiding devices corresponding to the greatest distance between the bifurcated stretching members,

Figure 2 is a side elevation corresponding to Figure 1 of the device in the inner limit position of the stretching members when brought close together,

Figure 3 is a side elevational detail illustrating the positive connection of the upper rods of the guiding devices on an enlarged scale, and

Figure 4 is a similar view of another constructional form of the positive connection between the lower rods of the guiding devices.

Similar characters of reference are employed in all of the above described views to indicate corresponding parts.

Referring now, more particularly to the accompanying drawings, there is provided a pair of forks or bifurcated members 1 adapted to be inserted in the lower ends of the legs of a pair of trousers, each of said forks or members having two legs 2^a and 2^b. A central suspending rod 3 is now provided and is fitted at its upper end with a suspending hook 4. This central rod 4 forms a part of two guiding devices each in the form of parallel rods 5 and 6 pivoted thereto at one side thereof and also pivoted to legs on one of the forks or bifurcated members 1. Other rods 7 and 8 are similarly pivoted to the other side of the central rod 3 and to the legs of the other fork 1. The pivots for the guiding device including the rods 5 and 6 are designated by the numerals 10, 11, 12 and 13 while the pivots for the other guiding device are designated by the numerals 14, 15, 16 and 17. Suitable means is provided for effecting resilient control of the guiding devices in the form of coil springs 9 and 10^a, the hooked ends of which are engaged in the holes 18 and 19 and 20 and 21. These springs 9, 10^a have the tendency to maintain the parallel rods on the opposite sides of the central rod 3 in the outer limit position according to Figure 1. This limit position according to Figures 1–2 is ensured by the lower part 3^a of the U-shaped bent central suspending rod 3, against which part 3^a the lower rods 6, 8 abut in their fully extended position (Figure 1) while according to the constructional form in Figure 4 the outer limit position of the device is ensured by the relatively abutting lower corners 6^b 8^b of the inner ends of the rods 6, 8.

The stretching forks or bifurcated members 1 are bent out of one piece, that is, one single piece of hoop iron with legs 2^a 2^b. The

leg portions 2^a 2^b are flattened in the section between the rods 7 and 8, that is, in the central part and united by means of the tongues 22 pressed out of the leg portion 2^b and extending through the holes 23 of the leg portion 2^a.

The two leg portions of the suspending rod 3 are also held together in the flattened central part by a tongue 22 extending through the adjacent hole 23.

In order to maintain the positive connection between the rods of the guiding devices, the inner ends of the rods 5, 7 are provided with intermeshing teeth 5^a 7^a (Figure 3) within the leg portions of the suspending rod 3. The center of the segment 5^a coincides with the pivot 11 and the center of the segment 7^a with the pivot 14. According to Figure 4, the intermeshing segments 6^a, 8^a are formed only at the upper part of the inner ends of the lower rods 6, 8 while the lower corners 6^b, 8^b abut each other in the outer limit positions of the guiding rods.

The positive connection between the rods of the guiding devices ensures the stretching members being always on the same level and the lower ends of the trousers legs being always uniformly spread out.

In order to increase the preservation of the trousers material, the toothed or fluted part of the bifurcated members 1 of the trousers hanger may be covered with rubber or fabric.

It is to be noted that the legs of the forks in reality form part of the guiding devices and in this connection it is also to be noted that guiding devices constitute movable frames each in the shape of a parallelogram, these being positively connected together to ensure of simultaneous parallel movement of the stretching forks when the hanger is in use.

It is believed in view of the foregoing description that a further detailed description is entirely unnecessary. Likewise it is believed that the advantages of the invention will be readily apparent.

Having thus fully described the invention what is claimed as new and desired to be secured by Letters Patent is:—

1. A trousers hanger including a pair of stretching members adapted to be inserted in the lower ends of the legs of a pair of trousers, two guiding devices carrying the stretching members for ensuring of the simultaneously parallel movement thereof, each guiding device being in the form of a pivoted double rod parallelogram and of which each stretching member forms a part, and segments formed on the adjacent ends of the rods of each parallelogram and intermeshing with each other so as to positively unite the guiding devices together.

2. A trousers hanger including a pair of stretching members adapted to be inserted in the lower ends of a pair of trousers, two guiding devices carrying the stretching members and ensuring of the simultaneous movement thereof, said guiding devices including a central supporting rod, pairs of parallel rods pivoted thereto and to the stretching members, the adjacent inner ends of the parallel rods being formed as intermeshing segments so as to positively unite the guiding devices together and each stretching member being formed from one single piece bent to provide leg portions which form the outer sides of each of the guiding devices and embrace the outer ends of the parallel rods.

3. A trousers hanger as claimed in claim 2, wherein the lower corners of the inner ends of the adjacent lower rods are formed as cooperating abutments for facilitating the limiting of the outer movement of the rods when the trousers hanger is in a fully extended position.

In testimony whereof I affix my signature.

KARL FRANCSICS.