

No. 857,902.

PATENTED JUNE 25, 1907.

L. S. PLUMMER.
TROUSERS STRETCHER.
APPLICATION FILED MAR. 30, 1907.

Fig. 1.

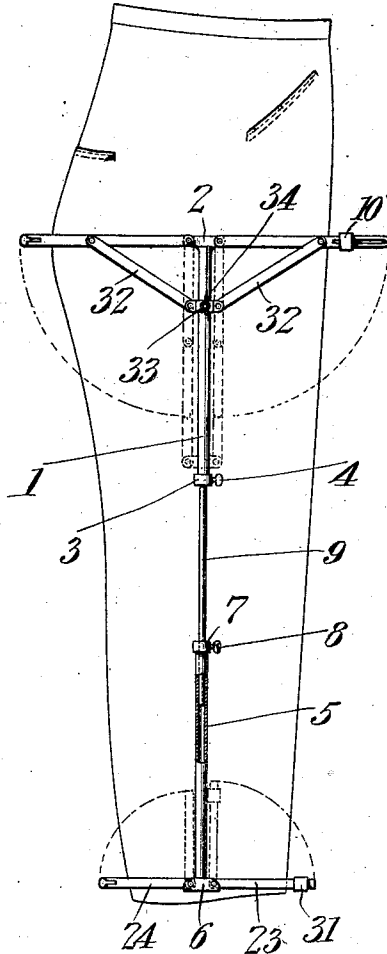


Fig. 2.

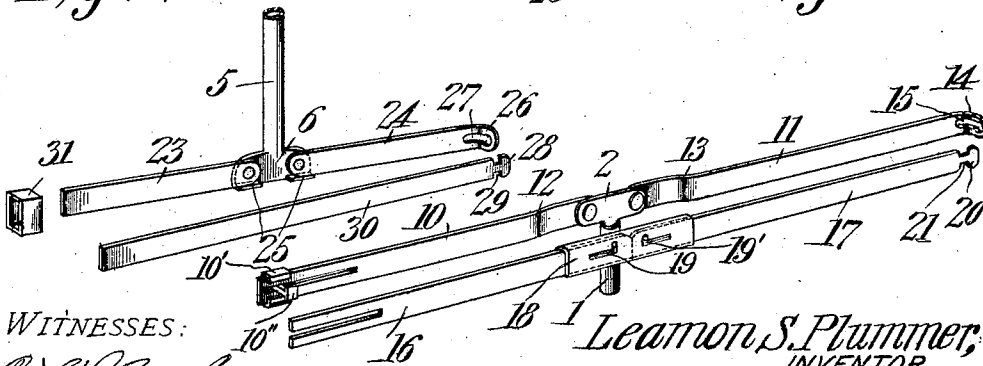


Fig. 3.

WITNESSES:

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LEAMON S. PLUMMER, OF SWANTON, OHIO.

TROUSERS-STRETCHER.

No. 857,902.

Specification of Letters Patent.

Patented June 25, 1907.

Application filed March 30, 1907. Serial No. 365,507.

To all whom it may concern:

Be it known that I, LEAMON S. PLUMMER, a citizen of the United States, residing at Swanton, in the county of Fulton and State of Ohio, have invented a new and useful Trousers-Stretcher, of which the following is a specification.

This invention has reference to improvements in trousers stretchers, and its object is to produce a strong and easily adjusted device for the purpose which may be closed up to such an extent as to occupy but little space and which may be easily carried in a satchel.

The invention consists essentially of two main portions having telescopic connection whereby they may be separated to the desired extent and will also occupy but little space when disassembled and packed for transportation, and each of these main portions carries folding parts which, when extended so as to be in line one with the other, may receive another part which coacts with the folding parts to form a clamp between which the proper portion of the garment to be stretched is grasped and held against accidental displacement. Those parts of the device which are necessarily of considerable length are made foldable so as to occupy, when folded, but little space, the purpose being to produce the device in such form that when it is folded the length of any one part is so reduced that the device may be readily inserted in a satchel of ordinary length for transportation.

The invention will be fully understood from the following detailed description taken in connection with the accompanying drawing forming part of this specification, in which,—

Figure 1 is a side elevation, partly in section, of the device applied to a pair of trousers; Fig. 2 is a detail perspective view of a portion of the lower section to illustrate the operation of clamping; and Fig. 3 is a perspective view, partly in section, showing the structure of the upper or longer clamp.

Referring to the drawings, there is shown a hollow stem or socket 1 having a head 2 formed at one end and a clamp sleeve 3 at the other end carrying a thumb-screw 4. There is also shown another socket 5 having a head 6 formed at one end and carrying at

the other end a clamp sleeve 7 provided with a thumb-screw 8. These two socketed stems receive, when in operative position, each one end of a rod 9 which may telescope into either socketed stem 1 or 5 or into both, and is held in the adjusted position by the thumb-screws 4 and 8.

Pivotally connected to the head 2 are the contiguous ends of two arms 10—11, each slightly bent, as shown at 12 and 13 respectively, so that the main portions lie in approximately the same plane as the head 2. The free end of the arm 11 is turned at an angle, as shown at 14, and is there provided with a slot 15. The free end of the arm 10 is slotted, as shown, and carries a clip 10' having a projecting headed pin 10". Coacting with the arms 10 and 11 are two other arms 16 and 17 pivotally connected at their meeting ends by a U-shaped yoke 18. This yoke has angle slots 19 in which engage pins 19', one on each arm 16 and 17. When the arms 16 and 17 have their contiguous ends together, the pins engage in the angle ends of the slots and so hold the two arms in alignment. When the yoke 18 is lifted the two arms 16 and 17 may be pulled apart and then folded one on the other.

The free end of the arm 16 is slotted like that of the arm 10, except that the slot is open to receive the headed pin 10", while the free end of the arm 17 is formed with a T-head 20 having a stem 21 of reduced diameter joining it to the main body of the arm 17. The head 20 is adapted to be inserted through the slot 15, which is of such width and length as to permit this head to move through it when turned so that its head is parallel with the length of the slot, but when this head has been inserted through the slot the arm 17 is turned so as to bring the head at right angles to the length of the slot, which movement is permitted by the reduced neck 21. The head effectually locks the arm 17 to the end 14 of the arm 11. When in this position the arms 11 and 17 may be brought into close relation and the arms 10 and 16 will also be brought into close relation, and when so placed they are held from displacement by the sliding ring or clip 10' slipped over the meeting ends of the contiguous arms 10 and 16. These sets of arms are so related that they will firmly grasp the body portion of a

pair of trousers placed between them. The parts 14 and 20 perform the functions of an ordinary hinge joint.

The stem 5 has pivoted on its head 6 the
 5 contiguous ends of two oppositely-extending
 arms 23—24, the movement of which around
 their pivots may be limited by ears 25 formed
 on the head 6. The free end of the arm 24
 is turned at an angle, as shown at 26, and
 10 this angle end is provided with a slot 27.
 Adapted to be inserted through the slot 27
 is a head 28 joined by a neck 29 to a straight
 flat bar 30 approximately equal in length to
 the two arms 23 and 24 when extended on
 15 the head 6. This bar 30 is attached to the
 end 26 of the arm 24 in the same manner as
 the arm 17 is joined to the arm 11, that is,
 it is hinged thereto, and the other or plain
 end of this bar 30 and the plain end of the
 20 arm 23 are coupled together by a clip or ring
 31 so that the bottoms of the legs of the trou-
 sers may be securely clamped between the
 bar 30 and the two arms 23 and 24 and there
 held by the clip 31. The two arms 10 and 11
 25 are held in extended position by links 32 con-
 nected to these arms at some distance from
 their pivotal points and the other ends of the
 links 32 are connected to a slide 33 movable
 on the stem 1 and held in any adjusted posi-
 30 tion thereon by a thumb-screw 34.

It will now be seen that a pair of trousers
 may be grasped near the body portion by
 the clamp carried by the stem 1 and near the
 bottoms of the legs by the clamp carried by
 35 the stem 5, and that the trousers may be put
 under longitudinal strain by the movement
 away from each other of the stems 1 and 5,
 and be there held by the rod 9 clamped by
 the screws 4 and 8. It will be understood,
 40 of course, that the arms 23 and 24 may be
 supported by links similar to the links 32
 with an adjustable sleeve 33, but since these
 two arms 23 and 24 are joined by the un-
 broken bar 30 and since this clamp is com-
 45 paratively short, the strengthening links 32
 may be omitted. Now, it will be seen that
 by removing the bars 16 and 17 from engage-
 ment with the bars 10 and 11 the latter may
 be folded upon the stem 1, as indicated in
 50 dotted lines in Fig. 1, and the bars 16 and 17
 may also be folded upon themselves by the
 suitable manipulation of the locking device
 18—19. It will also be seen that on the
 removal of the bar 30 the two arms 23 and 24
 55 may be folded upon the stem 5. Thus the
 entire device is collapsible into such short
 units that it may easily be inserted in an
 ordinary satchel.

I claim:—

60 1. A trousers stretcher comprising a hol-
 low stem carrying a trousers clamp at one
 end and provided with a clamp sleeve and
 screw at the other end, another hollow stem
 having a trousers clamp at one end and pro-
 vided with a clamp screw and sleeve at the

other end, and a rod insertible into each hol-
 low stem through the clamping sleeve there-
 on and adapted to be held to said sleeves by
 the clamp screws.

2. A trousers stretcher comprising two hol- 70
 low stems, clamp screws, an intermediate
 spacing rod adapted to enter each stem and
 be clamped thereto, clamps on each stem,
 each clamp comprising two hinged bars one
 of which is formed with a hinge member and 75
 the other of which is formed with another
 hinge member to engage the first-mentioned
 hinge member, and means for removably se-
 curing the two members of the clamp in con-
 tiguous relation. 80

3. A clamp section for trousers stretchers
 comprising a suitable stem, two arms hinged
 to the stem at their contiguous ends and one
 arm having a hinge member formed therein
 at its free end, another arm having a hinge 85
 member adapted to the first-mentioned hinge
 member and movable into close parallel rela-
 tion with the two arms, and a retaining clip
 or ring carried by one of the arms hinged to
 the stem and arranged to engage over and 90
 confine the ends of the said arm and the ad-
 jacent arm together.

4. In a trousers stretcher, a clamp end
 therefor comprising a suitable stem, arms each
 hinged at one end thereto and one of the 95
 arms having its free end formed with a hinge
 member, a locking slide carried by the stem,
 links each connected at one end to the lock-
 ing slide and at the other end to a respective
 one of said arms, and a clamp member coact- 100
 ing with the aforesaid arms and composed of
 other two arms connected together at one
 end and one of said last-named arms having
 a hinge member coacting with the hinge
 member on one of the first-mentioned arms, 105
 a locking sleeve for the hinged connected
 ends of the second-named arms, and means
 for confining those ends of the clamp mem-
 bers remote from their hinge connection in
 contiguous relation. 110

5. A trousers stretcher comprising a hol-
 low stem having a clamp sleeve secured at
 one end, two arms at the other end of the
 stem each pivoted at one end thereto and
 one of said arms having its free end formed 115
 with a hinge member, a locking slide on the
 stem, links connecting the aforesaid arms to
 the locking slide, a clamp member coacting
 with the arms on the stem and comprising
 two other arms pivotally joined together, a 120
 locking sleeve for the pivoted ends of these
 last-named arms, a hinge member formed on
 the end of one of said last-named arms and
 arranged to engage the hinge member on the
 corresponding arm carried by the stem; an- 125
 other hollow stem having a clamp sleeve at
 one end, two arms pivoted to the other end
 of the stem, a hinge member formed on the
 end of one of these last-named arms, a bar
 adapted to coact with the last-named arms 130

and provided with a hinge member for engagement with the hinge member of the corresponding arm carried by the second hollow stem, clips or rings adapted to those
5 ends of the clamps remote from their hinged ends to hold them together, and a rod adapted to enter both hollow stems and to be clamped thereto.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature 10 in the presence of two witnesses.

LEAMON S. PLUMMER.

Witnesses:

T. W. KNIGHT,
R. L. REED.