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2,568,083

REMOVABLE KNEE PATCHES FOR PANTS

Filed Dec. 6, 1949

2 Sheets-Sheet 1

Fig. 1.

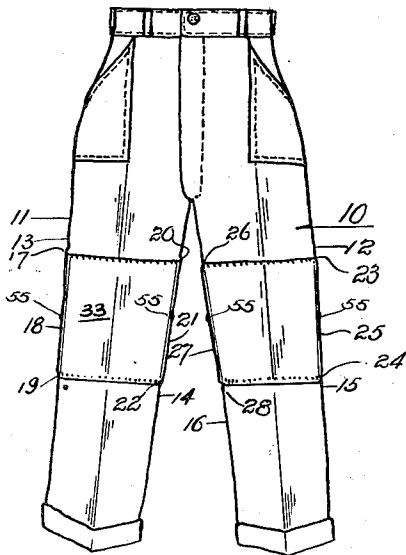


Fig. 2.

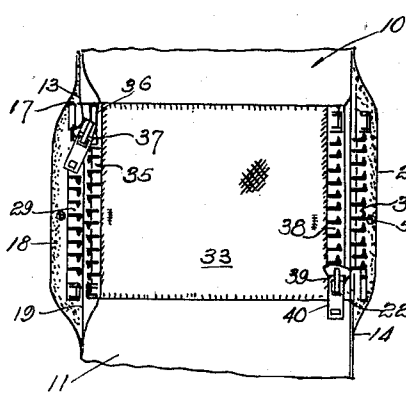
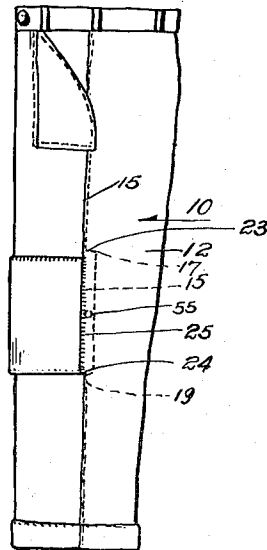


Fig. 3.

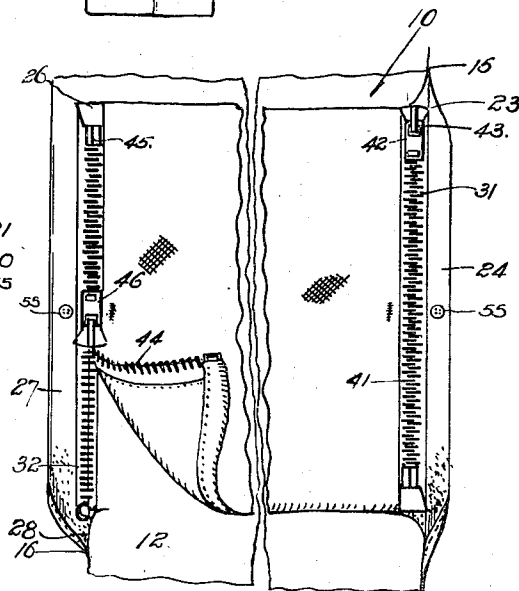


Fig. 4.

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2 Sheets-Sheet 2

Fig 5.

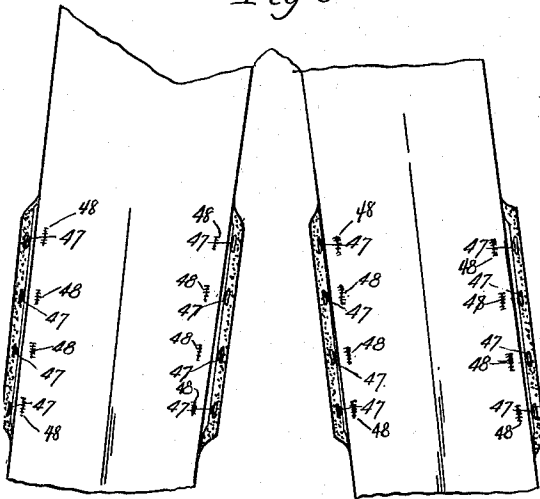


Fig. 6.

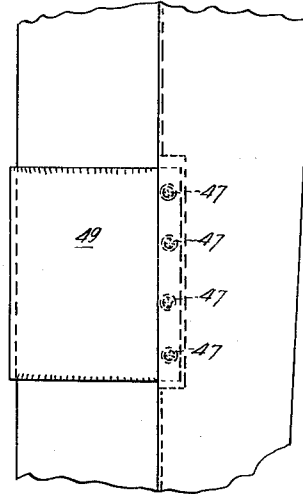


Fig 7

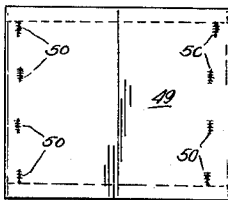


Fig. 8.

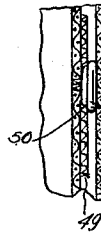


Fig. 9.

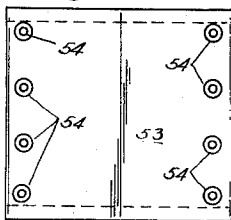


Fig 10.

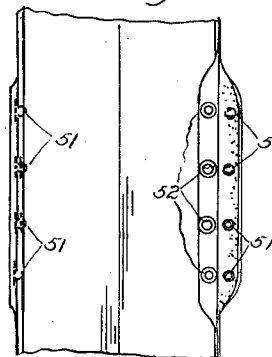
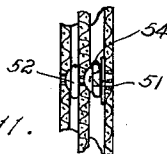


Fig 11.



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UNITED STATES PATENT OFFICE

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REMOVABLE KNEE PATCHES FOR PANTS

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5 Claims. (Cl. 2-231)

1

My invention relates to removable patches for pants and slacks.

Among the objects of my invention is to provide a pair of pants which may be worn by men, women or children, and which is so constructed that removable knee patches may be quickly and easily installed and removed. It is well known that children are rough on the knees of their clothing. They play on their knees, crawl on their knees and fall on their knees, each time injuring the fabric of their pants. It is never long before the knees of the pants are worn out and must be patched. Since the identical material is seldom available, the patch is of a contrasting color or material and is unsightly. From then on the pants must be relegated to a secondary status and may no longer be worn for dress.

The same condition exists for adults who continually or occasionally work on their knees, such as carpenters, plumbers, farmers and many others.

It is among the objects of my invention to provide a pair of pants which may be worn for dress and which appears to be identical with an ordinary pair of pants. It is, however, provided with concealed means for receiving and permanently holding in place a pair of knee patches which are made of identically the same material as the pants themselves. The patches may be quickly and easily installed and are substantially unnoticeable when in place.

In use, my invention provides a means for saving the knees of pants from the wear, tear and dirt which they would ordinarily receive. In the case of children, the parents no longer need require the child to change from dress pants to play or work pants and then back again. All of this is avoided through the simple installation and removal of the knee patches. Similarly, in the case of adults, a carpenter or plumber may wear the pants to a job, install the patches while working and then remove them when the job is completed.

My invention thus provides a pair of pants equal in appearance to an ordinary pair, but which will wear far longer under harsh conditions without requiring patching or discarding.

My invention also provides such other objects, advantages and capabilities as will later more fully appear and which are inherently possessed by my invention.

While I have shown in the accompanying drawings, preferred embodiments of my invention, yet it is to be understood that the same are

2

susceptible of modification and change without departing from the spirit of my invention.

Referring to the drawings, Fig. 1 is a front elevational view of a pair of pants with the patches in place; Fig. 2 is a side elevational view of the same; Fig. 3 is a detailed view of a portion of the right knee and patch; Fig. 4 is an enlarged and broken detailed view of a portion of the left knee and patch; Fig. 5 is a front elevational view of the knee portions of a pair of pants showing another embodiment of my invention; Fig. 6 is a side elevational view of one leg with the patch in place; Fig. 7 is a front elevational view of the patch; Fig. 8 is an enlarged sectional view of the patch in place; Fig. 9 is a front elevational view of a patch showing another embodiment of my invention; Fig. 10 is a front elevational view of the knee portion showing one overlap portion open and Fig. 11 is an enlarged sectional view of the patch in place.

A preferred embodiment of my invention comprises a pair of pants 10 having a right leg 11 and a left leg 12. The pants are made in the customary manner except for the particular features hereinafter set forth.

Right leg 11 is provided with an outer seam 13 which extends from the belt line to the bottom of the leg and an inner seam 14 which extends from the crotch to the end of the leg. Left leg 12 is similarly provided with an outer seam 15 and an inner seam 16.

Outer seam 13 extends in a straight line down the outer edge of right leg 11 until it reaches a point adjacent the top of the portion of right leg 11 which covers the knees of the wearer. Outer seam 13 then extends at a right angle toward the rear of the pants 10 to form a top jog 17 which is approximately one-half inch in length. Outer seam 13 then makes another right angle and extends downwardly for approximately seven inches, forming an overlap portion 18. It then extends at a right angle toward the front of pants 10 to form a bottom jog 19, which is also approximately one-half inch in length, and then continues downwardly to the bottom of right leg 11.

Inner seam 14 of right leg 11 is similarly constructed and is provided with a top jog 20, an overlap portion 21 and a bottom jog 22. Outer seam 15 of left leg 12 similarly has a top jog 23, an overlap portion 24 and a bottom jog 25. Inner seam 16 of left leg 12 has a top jog 26, an overlap portion 27 and a bottom jog 28.

At the time that outer seam 13 is sewed, there is inserted therein between the two portions of cloth forming right leg 11, the cloth portion of a

slide fastener half 29. Slide fastener half 29 is approximately six inches in length and is firmly held in place by outer seam 13. It preferably extends slightly less than one-quarter inch from outer seam 13, so that it is completely concealed by overlap portion 18. The starting end of slide fastener half 29 is preferably positioned adjacent and just short of top jog 17 of outer seam 13. The terminating end of slide fastener half 29 is preferably positioned adjacent and just short of bottom jog 19 of outer seam 13.

Inner seam 14 of right leg 11 is similarly provided with a slide fastener half 30, which is concealed by overlap portion 21 and is preferably positioned with its starting end adjacent bottom jog 22, opposite to the positioning of the corresponding slide fastener half 29 of outer seam 13.

Outer seam 15 of left leg 12 is similarly provided with a slide fastener half 31 which is concealed by overlap portion 24 and which is preferably positioned with its starting end adjacent top jog 23. Inner seam 16 of left leg 12 is similarly provided with a slide fastener half 32 which is concealed by overlap portion 27 and is preferably positioned with its starting end adjacent bottom jog 28 opposite to the positioning of the corresponding slide fastener half 30 of outer seam 15.

In constructing the seams and legs in the manner above set forth, the maker may provide a sufficient excess of material along the entire length of the seams or merely along the knee portion, or he may supply an additional small piece of cloth to supplement that which is normally used in making the pants.

For use with this construction, I provide a right knee patch 33 and a left knee patch 34, which are preferably made of exactly the same material as the pants 10. They should preferably correspond in color, marking, etc. to the knees of pants 10.

Right knee patch 33 is provided at its left edge with a slide fastener half 35, the cloth part of which is sewed to knee patch 33, so that slide fastener half 35 extends along substantially the entire left edge of knee patch 32. Slide fastener half 35 has at the top thereof a holding member 36 which is adapted to hold the starting end of a corresponding slide fastener half. Movably positioned on slide fastener half 35 is an operating member 37, which is adapted to receive the starting end of a corresponding slide fastener half and then slide along, joining the two edges together.

Right knee patch 33 is provided at its right edge with another slide fastener half 38 which has at its bottom a holding member 39 and which has an operating member 40.

Left knee patch 34 has at its left edge a slide fastener half 41, which has a holding member 42 at the top and an operating member 43. At its right edge it has a slide fastener half 44 with a holding member 45 at the top and an operating member 46.

In use, the pants 10 may be worn in the usual manner, bearing no superficial dissimilarity from any other pair of pants. The slide fastener halves are all concealed within the overlap portions of the seams. The pants may be worn in this manner without the patches for any dress occasion.

When the wearer is ready to work or play, the knee patches 33 and 34 may then be put in place. This is done by simply hooking the starting end of slide fastener half 29 through the openings of operating member 37 and holding member 36

of the corresponding slide fastener half 35. Operating member 37 may then be slid downwardly until it reaches the end of the slide fastener halves. This fastens the left side of knee patch 32 firmly in place.

A corresponding operation may then be repeated to fasten the remaining edges of knee patches 33 and 34. This may be accomplished in a matter of seconds, with no difficulty whatsoever.

When thus in place, knee patches 33 and 34 are securely held in place over the knees of the pants 10. Both edges of the slide fasteners and the holding and operating members are concealed within the overlap portions of the seams. The patches blend in with the remainder of the pants, so that they are not noticeable when observed from a distance.

In use, knee patches 33 and 34 bear the brunt of the shocks, scraping, tearing and normal wear which would, otherwise, be received by the knees of the pants. When the wearer desires to change to a more formal dress, for wear other than play or work, the knee patches 33 and 34 may be quickly and easily removed and the pants restored to their normal condition.

The slide fasteners on each knee patch 33 and 34 are preferably positioned so as to work in opposite directions. A strain on the top or bottom of the patch will not then cause the patch to be torn from the knee. At the worst, only one side will be affected and the slide fastener on that side can easily be slid back to closed position.

In the center of overlap portion 18, I provide a button 55 which is mounted on overlap portion 18 with a corresponding button hole on right leg 11 and patch 33. The purpose of button 55 is to provide a means for fastening overlap portion 18 to right leg 11 or patch 33. Otherwise, overlap portion 18 may bulge out at its center and provide a gap through which the slide fastener would be visible. Similar buttons 55 are provided for the other overlap portions 21, 24 and 27.

Figs. 5 through 8 show another embodiment of my invention in which buttons are used in place of slide fasteners. In this embodiment, the overlap portions are provided with buttons 47, four of which are placed on each overlap portion. The legs of the pants are provided with four button holes 48 beneath each overlap portion for fastening the overlap portion to the pants when the patches are not in place. The patches 49 are provided with four button holes 50 on each side thereof, corresponding to buttons 47.

Figs. 9 through 11 show yet another embodiment of my invention in which snap fasteners are used in place of a slide fastener or buttons. In this embodiment, the overlap portions are provided with four snap fastener halves 51. The legs of the pants are provided with four corresponding snap fastener halves 52. The patches 53 are provided with four snap fastener halves 54.

It is also contemplated that hooks and eyes or other fastening means may be used in the same manner as the buttons and snap fasteners shown and described.

It is also within the spirit of my invention to provide a patch which is made of stronger materials than the pants, or which is provided with padding to protect the knee of the wearer.

Having thus described my invention, I claim:
1. A pair of pants having two legs, an outer and an inner seam extending on the outer and inner edges of each of said legs, said seams having top jogs therein extending toward the rear

5

of said pants adjacent the beginning of the knee portions of said pants, said seams continuing downwardly and then having bottom jogs returning to the original paths of said seams adjacent the ending of the knee portions of said pants, said jogs forming overlap portions, four slide fastener halves positioned and concealed within said overlap portions, said slide fastener halves held in place by said seams, and a pair of knee patches constructed of the same material as said pants, each of said knee patches having a slide fastener half extending along each of its side edges, said slide fastener halves having holding members and operating members positioned thereon, said knee patches adapted to be quickly and easily installed on said pants by attaching said holding members and operating members to the slide fastener halves in the overlap portions of said pants and sliding said operating members to join said slide fastener halves together, said slide fasteners concealed within said overlap portions when said knee patches are in place, said knee patches adapted to be quickly and easily removed by reversing the operation of said operating members, said slide fastener halves in said overlap portions of each leg of said pants having their starting ends positioned at opposite top and bottom ends of said overlap portions to prevent the accidental removal of said patches.

2. A pair of pants having two legs, an outer and an inner seam extending on the outer and inner edges of each of said legs, said seams having top jogs therein extending toward the rear of said pants adjacent the beginning of the knee portions of said pants, said seams continuing downwardly and then having bottom jogs returning to the original paths of said seams adjacent the ending of the knee portions of said pants, said jogs forming overlap portions, four slide fastener halves positioned and concealed within said overlap portions, said slide fastener halves held in place by said seams, and a pair of knee patches constructed of the same material as said pants, each of said knee patches having a slide fastener half extending along each of its side edges, said slide fastener halves having holding members and operating members positioned thereon, said knee patches adapted to be quickly and easily installed on said pants by attaching said holding members and operating members to the slide fastener halves in the overlap portions of said pants and sliding said operating members to join said slide fastener halves together, said slide fasteners concealed within said overlap portions when said knee patches are in place, said knee patches adapted to be quickly and easily removed by reversing the operation of said operating members.

3. A pair of pants having two legs, an outer and an inner seam extending on the sides of each of said legs, said seams having overlap portions which are adjacent the knee portions of said pants, four slide fastener halves positioned and concealed within said overlap portions, said slide fastener halves held in place by said seams, and a pair of knee patches constructed of the same material as said pants, each

6

of said knee patches having a slide fastener half extending along each of its side edges, said knee patches adapted to be quickly and easily installed on said pants by attaching said slide fastener halves on said pants and patches together, said slide fasteners concealed within said overlap portions when said patches are in place, said patches adapted to be quickly and easily removed by separating said slide fastener halves, said slide fasteners on each leg working in opposite directions to each other to prevent accidental removal of said patches.

4. A pair of pants having two legs, an outer and an inner seam extending on the sides of each of said legs, said seams having overlap portions which are adjacent the knee portions of said pants, four slide fastener halves positioned and concealed within said overlap portions, said slide fastener halves held in place by said seams, and a pair of knee patches constructed of the same material as said pants, each of said knee patches having a slide fastener half extending along each of its side edges, said knee patches adapted to be quickly and easily installed on said pants by attaching said slide fastener halves on said pants and patches together, said slide fasteners concealed within said overlap portions when said patches are in place, said patches adapted to be quickly and easily removed by separating said fastener halves.

5. A pair of pants having two legs, an outer and an inner seam extending on the outer and inner edges of each of said legs, said seams having top jogs therein extending toward the rear of said pants adjacent the beginning of the knee portions of said pants, said seams continuing downwardly and then having bottom jogs returning to the original paths of said seams adjacent the ending of the knee portions of said pants, said jogs forming overlap portions, fastening means positioned and concealed within said overlap portions, and a pair of knee patches constructed of the same material as said pants, each of said knee patches having fastening means positioned at each of its side edges, said knee patches adapted to be quickly and easily installed on said pants by attaching said fastening means on said pants and said fastening means on said knee patches together, both of said fastening means being concealed within said overlap portions when said knee patches are in place, said knee patches adapted to be quickly and easily removed by separating said fastening means.

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