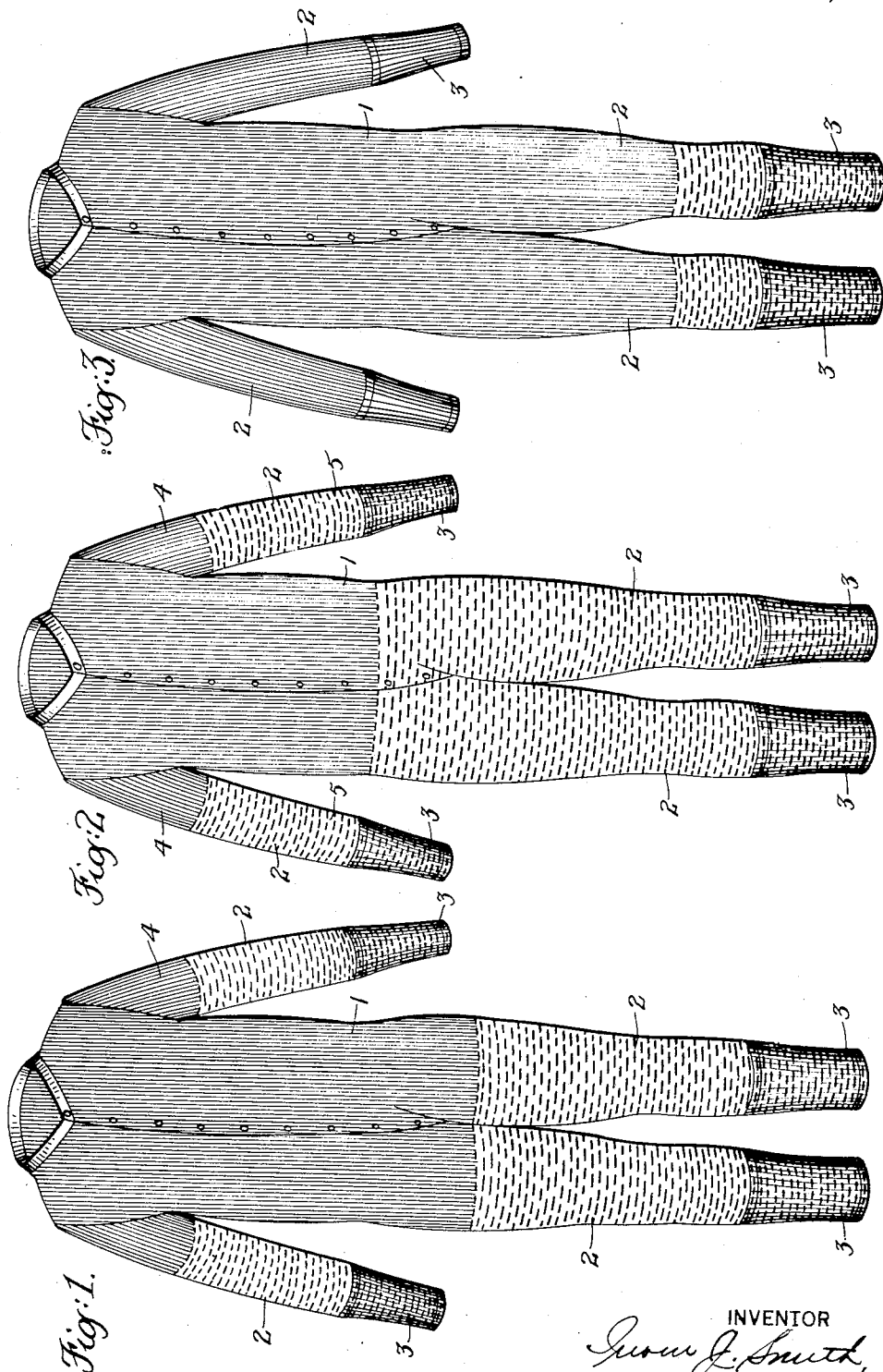


1,329,025.

I. J. SMITH.
GARMENT.

APPLICATION FILED DEC. 8, 1917.

Patented Jan. 27, 1920.



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GARMENT.

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, IRWIN J. SMITH, a citizen of the United States, and resident of Menands, Albany county, and State of New York, have invented certain new and useful Improvements in Garments, of which the following is a specification.

My invention relates to garments and particularly to under garments.

10 An object of my invention is to produce an article of the above character so constructed that it will be of substantially uniform weight throughout but of different kinds of material so arranged that the part
15 of the garment covering that part of the body of the wearer which is well protected by outer garments, will be made of fibers which are good conductors of heat, such as cotton or other fibers of vegetable origin,
20 whereas the parts of the garment which cover that part of the body of the wearer, which is less well protected by outer garments, are made of fibers which are poor conductors of heat, such as wool, silk or other
25 fibers of animal origin.

My invention will be better understood by reference to the accompanying drawing showing by way of illustration three embodiments thereof, in which—

30 Figure 1 shows a front elevation of a garment of the union suit type.

Fig. 2 is similar to Fig. 1 but differs somewhat in arrangement.

35 Fig. 3 is another modification of the garment shown in the preceding figures.

In the drawings, the garment consists of a body portion 1 and limb portions 2. In all the figures the longitudinal parallel lines indicate fibers of vegetable origin or good
40 conductors of heat, whereas the transverse dotted lines indicate fibers of animal origin or poor conductors of heat. In Figs. 1 and 2 the lower ends 3 of the limb portions are indicated as being ribbed but are of the
45 same material as the adjacent limb portion. In Fig. 3 the arms are entirely of material of vegetable origin, whereas the leg portions are partly of one material and partly of another.

50 It will be seen by reference to Figs. 1 and 2 that the arm portions are identical in these two figures, that is the upper part 4 is made of say, cotton and the lower part 5 of wool. In Fig. 2 the woolen part of the lower
55 part of the garment extends to about the waist band whereas in Fig. 1 the body por-

tion, which is composed of fibers of vegetable origin extends much lower than in Fig. 2. In Fig. 3 the garment is composed entirely of fibers of vegetable origin except 60 that part of the leg portion which extends downwardly from approximately the knee.

In all of the illustrations the various portions of the garment are of equal weight so that the garment itself will not be objectionable on account of the variation in weight of the different parts. The various parts of different material are furthermore preferably continuously knitted or woven together so that the line of union between 70 the two kinds of material would not be noticeable without close inspection, although the parts may, if desirable, be made separate and loop stitched or otherwise fastened together. 75

My invention includes a garment of the character above indicated which is all knitted or all woven, or part knitted and part woven of all one weight of different kinds of fibers of the same construction, or the 80 same weight of different fibers of different construction, and the parts may be fastened together by sewing, looping, transferring or other method of attachment.

Various advantages will be apparent from 85 the invention as above described, particularly that in a garment of this kind, if that part of the body of the wearer which is amply protected by outer garments is covered by a woolen under garment, the wearer 90 is frequently annoyed by discomfort due primarily to the woolen fibers or the non-conductors of heat, whereas in such garments in which the less well protected parts are covered by cotton material, while they 95 will be comfortable inside are nevertheless frequently uncomfortable when out of doors. By the arrangement above illustrated and described and various modifications thereof, which are within the purport of my invention, the parts of the body of the wearer which would be subject to discomfort if covered with fibers which are poor conductors of heat, are in my garment covered by good conductors of heat, so that the heat 105 generated by the body is freely dissipated, whereas those parts of the body of the wearer, which when out of doors would be subject to undue exposure if covered by fibers which are good conductors of heat, are in my 110 garment protected by fibers which are non-conductors of heat. This arrangement 106

only secures comfort when in doors but secures comfort and protection likewise when out of doors.

Obviously many modifications may be made of the invention above described, but I have shown three forms which the invention may take, but I wish it to be understood that these drawings are purely by way of illustration and my invention is not in any way limited to any or all of these specific embodiments. My invention may be applied to garments of the union suit type or to separate garments, and the portions of fibers of good heat conductivity and those fibers of poor heat conductivity may be placed at various parts of the garment, and I desire it to be understood that my invention is limited only by the claims appended hereto.

Having described my invention, what I claim as new and desire to secure by Letters Patent is:—

1. An under garment having body and limb portions of knitted material and certain parts of each of said portions being of fibers of vegetable origin and the other parts thereof being of similar weight and of fibers of animal origin and continuously knitted onto the first parts.

2. An under garment having body and leg portions, the body portion and that part of the leg portion extending down to above

the knee thereof being knitted of fibers of good heat conductivity and the balance of the leg portion being continuously similarly knitted of fibers of poor heat conductivity and of substantially the same weight as the body portion.

3. An under garment having body and leg portions, the body portion and that part of the leg portion extending down to above the knee thereof being knitted of fibers of cotton and the balance of the leg portion being continuously similarly knitted of fibers of wool and of substantially the same weight as the body portion.

4. An under garment having the body portion thereof made of knitted fibers of vegetable origin and the lower part of the limbs thereof made of knitted fibers of animal origin said portions being similar and of substantially the same weight.

5. An under garment having body and leg portions, the body portion and a part of the leg portion being knitted of fibers of vegetable origin and the balance of the leg portion being continuously similarly knitted of fibers of animal origin and of substantially the same weight as the other portion.

In testimony whereof I have signed my name to this specification.

IRWIN J. SMITH.