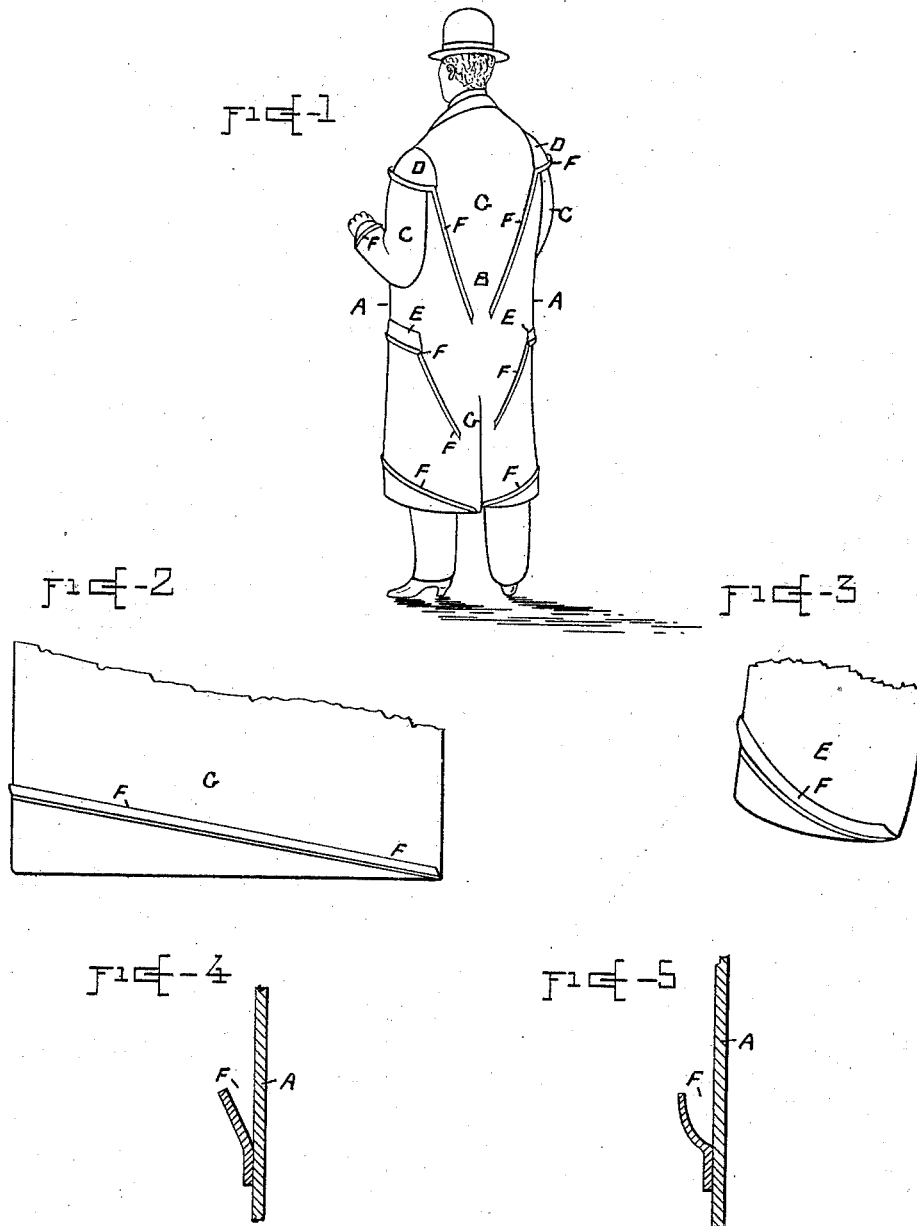


(No Model.)

A. F. CHASE.
WATER PROOF GARMENT.

No. 422,917.

Patented Mar. 11, 1890.



Witnesses

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UNITED STATES PATENT OFFICE.

AMOS F. CHASE, OF LYNN, MASSACHUSETTS.

WATER-PROOF GARMENT.

SPECIFICATION forming part of Letters Patent No. 422,917, dated March 11, 1890.

Application filed October 3, 1887. Serial No. 251,357. (No model.)

To all whom it may concern:

Be it known that I, AMOS F. CHASE, of the city of Lynn, in the county of Essex and State of Massachusetts, have invented certain new and useful Improvements in Rubber and other Water-Proof Wearing-Apparel, of which the following is a full, clear, and exact description.

As well known, much annoyance and discomfort are experienced in the wear of water-proof garments by the dripping of water from them.

It is the object of this invention to remedy this annoyance and discomfort; and to that end the invention in substance consists of a water-proof garment provided at its back with water receiving and conducting gutters or channels which run from opposite sides of the garment in a downward direction and at an inclination, those of the one side toward those of the other side, and terminate at or near the vertical central line of the back and are open along their upper edges and at their lower ends, and all so as to receive the water shed by and flowing over the surface of the garment above them, and on its shoulder-points and the lapels of its pockets with water receiving and conducting gutters or channels, each crossing and having a downward incline from front to rear of the garment and severally open along their upper edges and at their lower and back ends in open communication with said gutters of the back, all so that the water shed by and running over the shoulder-points and pocket-lapels, and which would otherwise escape directly therefrom, is caused to be conducted and delivered into the said water-channels of the back to be by them conducted and discharged from the garment practically in a stream common to them all, substantially as hereinafter described.

In the drawings forming part of this specification, Figure 1 is a perspective view in wearing position of a rubber overcoat having water gutters or channels in accordance with this invention. Figs. 2, 3, 4, and 5 are views in detail, as will hereinafter appear.

In the drawings, A is an overcoat suitable for men, made of rubber. B is its portion covering the body and legs of the wearer. C are its sleeves. D D are its shoulder-points,

and E E are the lapels to its pockets, the pockets not being shown.

The coat A otherwise than as to the features of this invention is made as ordinary.

F F are the water receiving and conducting gutters or chambers. Each gutter, as particularly shown, Figs. 4 and 5, is made of a strip of india-rubber molded or otherwise formed transversely into proper shape and severally attached at the portions of the coat, and, as hereinafter stated, by india-rubber or other suitable cement, or by stitching or otherwise suitably. The gutters, however, may be made of other materials and in other ways— as, for instance, by a doubling or folding of the material of the coat upon itself and by pressing or molding or otherwise shaping the so folded or doubled portion into a gutter or channel.

A gutter F, Fig. 1, is located across the lower portion of each shoulder-point D, and also across the lower edge of each pocket-lapel F, and in each instance the gutter is open at and along its upper edge, and it inclines downward from the front to the back of the coat. Again, Fig. 1, gutters F are located near the bottom edge of the coat, extending from each edge of the open front in a gradual downward incline around and across and to or near to the vertical central line of the back, where each terminates in an open end, and at or near the bottom edge of the coat, all practically as shown in Fig. 3, which is a face view of the lower portion of one-half of the coat laid out flat and from the open front edge to the vertical central line of back. Furthermore, gutters F are located on the back, one leading from the back and lower end of each gutter of the shoulder-points and pocket-lapels, as has been stated, and extending in a downward incline to a point near the vertical central line of the back. (See Fig. 1.) The several gutters F are open at and along their upper edges and also at their lower ends. The gutters across the shoulder-points receive the water which is shed by and passes over the shoulder-points D, and the gutters across the pocket-lapels receive the water which is shed by and passes over the pocket-lapels, and also the surface of the coat lying directly above the lapels and under the armpits, while the

gutters F on the back and leading from the gutters of the shoulder-points and pocket-lapels, as stated, receive (the upper pair, or those leading from the shoulder-point gutters) the water which is shed by and passes over the surface of the back of the coat from the neck downward to them, and the lower pair, or those leading from the pocket-lapel gutters, the water which is shed by and passes over the surface of the coat directly above and between them and said upper pair of gutters, and the gutters around the lower portion of the coat not only receive the water which is shed by and runs over the body portion of the coat at all parts not embraced by the gutters already particularly mentioned, but also the water which is gathered in said upper and lower pairs of gutters of the back, (it being delivered thereto at the lower open ends of said gutters,) and all of which water practically finally leaves and drops off of the coat and from said gutters at or near its bottom edge and the vertical central line of the back rearward of the wearer and coincident, or substantially so, with a vertical plane running between the legs.

A discharge of the water from the coat at a common point at or near the vertical central line and bottom edge of the back and otherwise, all as described, obviously practically avoids all possibility of the water in dropping from the coat falling upon the pants of the wearer, and it secures the accomplishment of the purpose of the invention in the highest degree. As is plain, it is preferable to provide both the shoulder-points and the pocket-lapels with gutters, as described; but they may be dispensed with. Again, the back may have more gutters than those shown, similarly running—that is, in a downward-inclining direction toward and across and terminating near the vertical central line of the back.

The invention, broadly considered, is not to be limited in these regards. However, it is well to observe that the series and combination of gutters particularly shown and described are found most efficient in operation and in service.

I am aware that, broadly considered, it is not new to provide a water-proof garment with water receiving and conducting channels, and this I do not claim; but

What I claim, and desire to secure by Letters Patent, is—

1. A water-proof garment provided with water receiving and conducting channels or gutters located on the back and leading from opposite sides of the garment and each having a downward inclination, those from either

side toward those from the other side and severally open along their upper edges and lower ends and terminating at or near the vertical central line of the back, in combination with water receiving and conducting channels or gutters located on and across the shoulder-points and open along their upper edges and inclining from the front to the back of the garment, and at the back each arranged to discharge into a gutter thereof, substantially as described, for the purpose specified.

2. A water-proof garment provided with water receiving and conducting channels or gutters located on the back and leading from opposite sides of the garment and each having a downward inclination, those from either side toward those from the other side, and severally open along their upper edges and lower ends and terminating at or near the vertical central line of the back, in combination with water receiving and conducting channels or gutters located on and across the pocket-lapels and open along their upper edges and inclining from the front to the back of the garment, and at the back each arranged to discharge into a gutter thereof, substantially as described, for the purpose specified.

3. A water-proof garment provided with water receiving and conducting channels or gutters located on and across the shoulder-points and the pocket-lapels of the garment, and each inclining from front to back of the garment and open along their upper edges and at their lower ends, and water receiving and conducting channels or gutters severally located on the back and one leading from the lower open end of each of said shoulder-point and pocket-lapel channels and downward and on an incline toward and terminating at or near the vertical central line of the back, and having an upper open edge and lower open ends, in combination with water receiving and conducting channels or gutters extending from each side of the front open edge of the garment around to or near to the vertical central line of the back, and having a downward direction along their length from front to rear and open along their upper edges and at their lower ends, substantially as described, for the purposes specified.

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

AMOS F. CHASE.

Witnesses:

ZENAS S. ARNOLD,
ALBERT W. BROWN.