Aug. 1, 1967 A. M. COHEN ETAL 3,333,589

SWIM GARMENT WITH BUILT-IN CONTROL SUPPORT

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Fig. 1

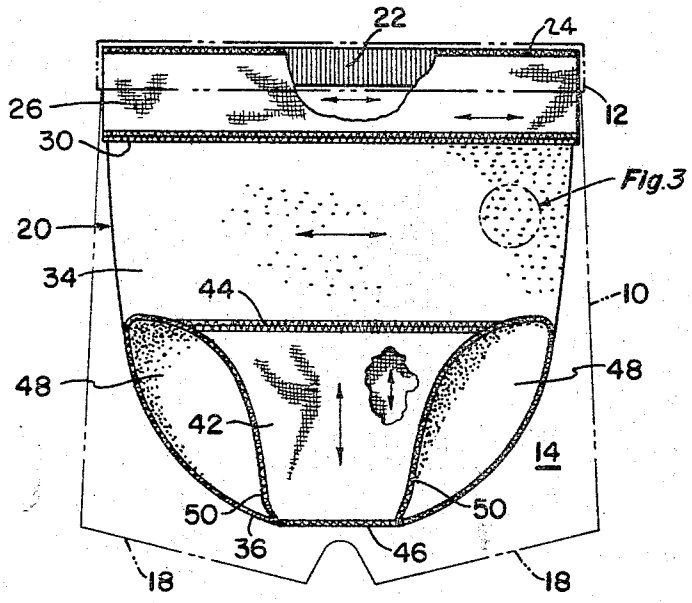


Fig. 2

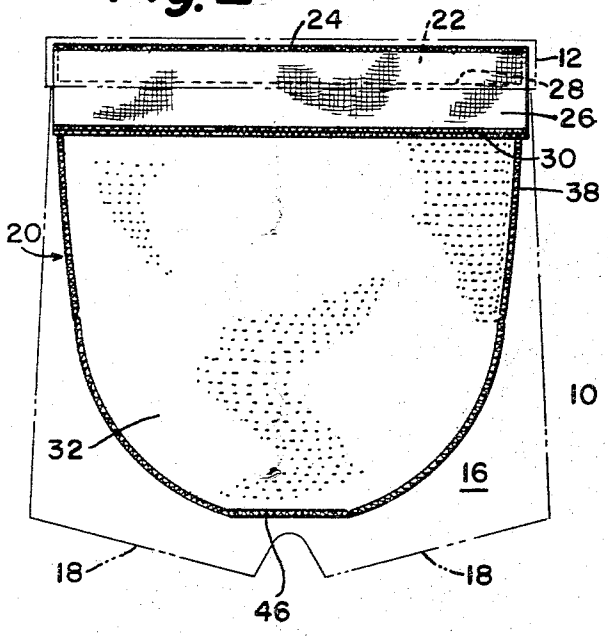
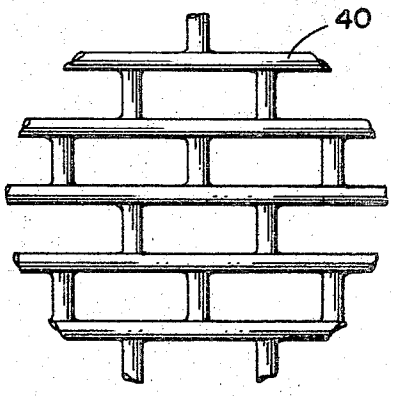


Fig. 3



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Fig. 4

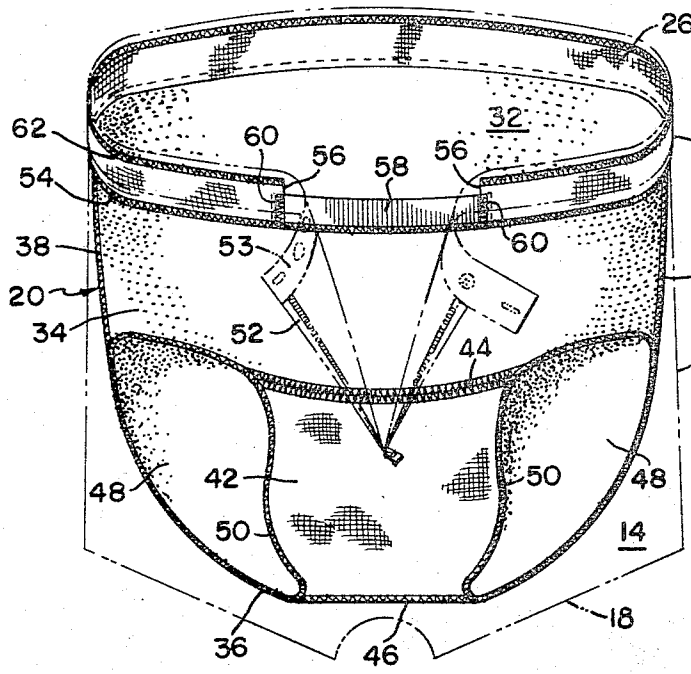
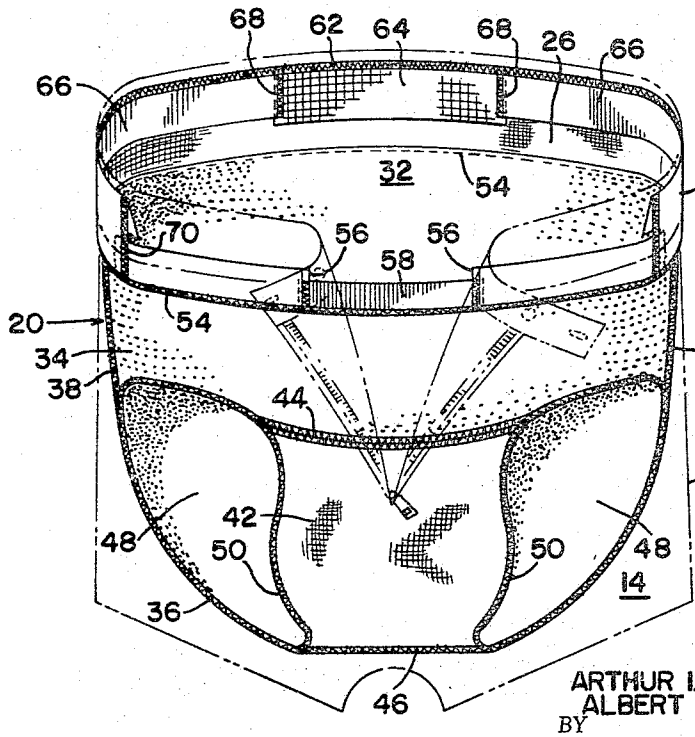


Fig. 5



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3,333,589

Patented Aug. 1, 1967

3,333,589

SWIM GARMENT WITH BUILT-IN CONTROL SUPPORT

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Filed July 1, 1965, Ser. No. 468,788
6 Claims. (Cl. 128—519)

This invention relates to a swim garment for males and females in general but more particularly to men's swim trunks.

It is desirable for many people who are unfortunately too heavy below the waist to incorporate in a swim garment an inner member which will act as a girdle to lend proper support and improve the wearer's apearance. It is the primary object of this invention to provide a swim garment which includes an inner member or panty which serves not only as a girdle support but which is also exceptionally comfortable and protective against exposure.

Another object of the invention is to provide a man's swim trunks, either boxer, zip fit or swim-walk, which incorporates a support panty so constructed as to provide strong, positive and effective takein of the abdomen, flexible soft support for the crotch and flexible soft engagement of the waist thereby acting as a comfortable, neat appearing control support garment.

Another object of the invention is to provide a swim trunk of the character described whose panty is so constructed that the leg openings grip the thighs, the bottom end of the back panel wraps around the cheeks and the crotch gusset wraps around the scrotal sack to thus assure complete coverage and support and avoid danger of exposure without sacrificing comfort.

Another object of the invention is to provide zip fit and swim-walk trunks which incorporate a control support panty of the character described which is so sewn into the trunks as to permit one to readily and easily step into the panty and open and close the zip fly at will.

The foregoing objects are attained by a construction comprising an outer conventional trunk and an inner panty sewn to the waist thereof, the panty including a full back panel which extends from the waist to the bottom of the crotch and a front panel which extends from the waist to the top of the crotch, which panels are made of power net which has maximum horizontal stretch and minimum vertical stretch, a crotch gusset connecting the front and back panels which is made of a soft material and has maximum vertical but minimum horizontal stretch, leg openings preferably of the soft thigh-gripping type and a waist portion connected to the upper ends of the front and back panels which includes a soft material that has maximum horizontal stretch and minimum vertical stretch.

These and other objects of the invention will become more apparent as the following description proceeds in conjunction with the accompanying drawings, wherein:

FIG. 1 is a front elevational view of the boxer type of men's swimming trunks incorporating the present invention, the outer trunk being shown in phantom;

FIG. 2 is a rear view of FIG. 1;

FIG. 3 is an enlarged elevational view of the power net, as shown in FIG. 1;

FIG. 4 is a perspective view of a zip fit type of men's swimming trunks incorporating the present invention; and

FIG. 5 is a view similar to FIG. 4 of a walk-swim type of men's swimming trunks incorporating the present invention.

Specific reference is now made to the drawings wherein similar reference characters are used for corresponding elements throughout.

Referring first to the boxer type swim trunks shown

in FIGS. 1–3, the same comprises an outer conventional member **10** made of any desirable material and design, and including a waist portion **12**, front and back portions **14** and **16** and leg openings **18**, and an inner control panty **20**.

The panty **20** is shorter and not as full as the outer member and includes a waist portion, a body portion, a crotch portion and leg openings. The waist portion includes a horizontally stretchable conventional tape or waist band **22** which is sewn at its upper edge as at **24** to the upper edge of a further waist member **26** which is wider than the tape and therefore extends below the lower edge **28** of the tape. The waist member **26** consists preferably of two plies of spun and filament nylon to give it elasticity and a soft texture for comfort, the waist member being so oriented as to have maximum stretch horizontally and minimum or virtually no stretch vertically. The tape or band **22** is enclosed as is the upper portion of the waist member **26** within the waist portion **12** of the outer member and sewn thereto in a conventional manner.

The lower edge of the waist member **26** is sewn as at **30** to the upper edge of the body portion which comprises a back panel **32** and a front shorter panel **34**. The back panel extends all the way down to the bottom of the crotch and is full thereat as at **36**, i.e. it does not taper sharply and inwardly, so that the back panel can wrap around the cheeks. The front panel **34** which is approximately half as long as the back panel, is stitched at its upper edge to the lower edge of the waist member **26** and is stitched along the sides as at **38** to the back panel. Both the front and back panels are of power net construction **40**, see FIG. 3, which, as is known in the trade is made of spandex and nylon, is stiffer than the spun and filament nylon of the waist member **26**, and offers high resistance when stretched, i.e. it has rapid and virtually complete recovery. The front and back panels are oriented to have maximum stretch horizontally and minimum or virtually no stretch vertically.

The crotch portion comprises a gusset **42** which is sewn at its upper edge as at **44** to the lower edge of the front panel **34** and at its lower edge **46** to the lower edge of the back panel **32**. The crotch gusset, like the waist member **26**, is made of two plies of spun and filament nylon for soft texture and is oriented to have maximum stretch vertically and minimum or virtually no stretch horizontally.

The side edges of the back panel and the crotch gusset and portions of the lower edge of the front panel are so shaped as to cooperate to form leg openings **48**. The leg openings are hemmed or finished by using latex banding so that they will softly grip the thighs. The seams at **30**, **38** and **46** are all safety stitched to avoid cracking. The width of the crotch gusset **42** and the shape of its side edges, so to provide a bowed portion **50** adjacent its lower edge **46**, are such as to produce a structure in which the gusset wraps around the scrotal sack and the leg openings **48** wrap around the thighs to assure complete coverage and avoid danger of exposure.

The overall construction of the panty is such that the abdomen below the waist is firmly taken in by the front and back panels **32** and **34**, the crotch is gently suspended and protected by the gusset **42** and the waist is comfortably engaged by the flexible waist member **26**.

The zip fit trunks shown in FIG. 4 differ from the boxer shown in FIGS. 1–3 only with respect to the front of the outer member **10** and the manner of securing the panty **20** to the waist **12**. Thus, the front of outer member **12** is provided with a zippered fly **52** and a front waist portion **53** which can be opened and closed by button, hook or any other means as is conventional.

The horizontally stretchable two-ply spun and filament

nylon waist member **26** is sewn to the upper edges of the front and back power net panels **32** and **34** as at **54** but instead of going all around, the waist member is discontinued in the front to provide free edges **56** on both sides of the fly **52**. An elastic tape **58** is terminally secured to the edges **56** of the waist member **26** as at **60**. The waist member **26** is sewn to the waist **12** of the outer member as at **62** above the seam **54** joining the upper edge of the front and back panels to the waist member **26**, but the tape **58** is not sewn to the waist **12** and remains connected only to the front panel **34**. Thus, when the fly is open as shown in FIG. 4, one can readily step into panty and stretch the same since the tape **58** is free to give or stretch widthwise. The panty in this zip fit garment is otherwise the same in construction as that used in the boxer shown in FIGS. 1–3.

The walk-swim trunk shown in FIG. 5 is substantially the same as the zip fit construction of FIG. 4 except that its outer member **12** is longer and designed for use as a swim suit and walk shorts and the manner of securing the panty **20** to the waist **12** of the outer member is somewhat different.

Thus, as in the construction of FIG. 4, the soft horizontally or widthwise flexible two-ply spun and filament nylon waist member **26** is sewn as at **54** to the upper edges of the front and back power net panels **32** and **34** and extends around but is discontinued in the front to form free edges **56** on both sides of the fly **52** which are joined by an elastic tape **58**. The upper edge of the rear portion of the waist member **26** is sewn as at **62** to a central buckram **64** and to a pair of elastic tapes **66** on both sides of the buckram to which the tapes are also secured as at **68**. The upper portion of the waist member **26** and the tapes **66** and buckram **64** are sewn into the waist **12** of the outer member as at **70** above the seam **54** joining the lower edge of the waist member to the front and back panels except that the front tape **58** is unconnected to the waist **12** of the outer member but remains connected only to the waist member **26** to allow the panty to stretch widthwise when the fly is open so that one can readily step into the panty.

While preferred embodiments have here been shown and described, it will be understood that skilled artisans may make minor variations without departing from the spirit of the invention and the scope of the appended claims.

We claim:

1. A swim garment comprising an outer member having front and back portions joined to form a waist at their upper ends and leg openings at their lower ends and an inner support panty, said panty including a body portion having a back panel and a shorter front panel both of power net construction having maximum horizontal stretch and minimum vertical stretch and providing high resistance to stretch for positive takein of the abdomen, stretchable means securing the upper edges of said panels to said waist of said outer member, and a crotch gusset made of a material softer and more flexible than said panels and having maximum vertical stretch and minimum horizontal stretch thereby providing comfort as well as allowance for variation in body build, said crotch gusset being secured between the lower edges of said front and back panels, said panty including leg openings below said front panel and to the sides of said crotch gusset.

2. The garment of claim **1** wherein said crotch gusset is made of two plies of spun and filament nylon.

3. The garment of claim **1** wherein said stretchable means securing the upper edges of said panels to said waist includes a material softer and more flexible than said panels and having maximum horizontal stretch and minimum vertical stretch.

4. A swim garment comprising an outer member having front and back portions joined to form a waist at their upper ends and leg openings at their lower ends and an inner support panty, said panty including a body portion having a back panel and a shorter front panel both of power net construction having maximum horizontal stretch and minimum vertical stretch and providing high resistance to stretch for positive take in of the abdomen, means securing the upper edges of said panels to said waist of said outer member, including a waist member made of two plies of spun and filament nylon having maximum horizontal stretch and minimum vertical stretch, and a crotch gusset made of two plies of spun and filament nylon having maximum vertical stretch and minimum horizontal stretch thereby providing comfort as well as allowance for varation in body build, said crotch gusset being secured between the lower edges of said front and back panels, said panty including leg openings below said front panel and to the sides of said crotch gusset.

5. A swim trunk comprising an outer member having front and back portions joined to form at waist at their upper ends and leg openings at their lower ends, a fly in said front portion adapted to open and close said waist, an inner support panty including a body portion having a back panel and a shorter front panel both of power net construction having maximum horizontal stretch and minimum vertical stretch, a band made of a material of softer texture than said panels and having maximum horizontal stretch and minimum vertical stretch, said band being connected between the upper edges of said panels and said waist and terminating in free ends on both sides of said fly, an elastic tape securing said free ends of said band but unsecured to said waist, and a crotch gusset made of a material of softer texture than said panels and having maximum vertical stretch and minimum horizontal stretch, said crotch gusset being secured between the lower edges of said front and back panels, said panty including leg openings below said front panel and to the sides of said crotch gusset.

6. The trunk of claim **5** wherein said band and said crotch gusset are made of two plies of spun and filament nylon.

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