

## Insect-repellent additives

INSECT PEST BEHAVIORAL DISTURBANCE INDUCER, FUNCTIONAL FIBER, FUNCTIONAL FABRIC AND FUNCTIONAL FIBER PRODUCT

**EP1656832**

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The invention is an insect pest behavioral disturbance inducer which comprises an organic ester compound having a vapor pressure of  $10^{-3}$  Pa (25 DEG C) order or less as an active ingredient, a functional fiber and a functional fabric, which hold aforementioned insect pest behavioral disturbance inducer, and a functional fiber product comprising the aforementioned functional fiber or a functional fabric, which can add excellent insect pest behavioral disturbance inducing effect to the applying place for a prolonged period of time.

INSECT-EXPELLING YARN NET AND METHOD FOR MANUFACTURING THE NET

**CHEN CHANG TECHNOLOGY CO LTD**

**EP1880641**

An insect-expelling yarn net and a method for manufacturing the net are provided. The insect-expelling yarn net includes a yarn net and an insect-expelling substance. The insect-expelling substance is attached to the yarn net. The method includes steps of: providing a yarn net; providing a solution of an insect-expelling substance; placing the yarn net in the solution; and volatilizing a solvent of the solution so that the insect-expelling substance can be attached to the yarn net. Another method for manufacturing an insect-expelling yarn net is provided. The method includes steps of: providing yarns; providing a solution of an insect-expelling substance; placing the yarns in the solution; volatilizing a solvent of the solution so that the insect-expelling substance can be attached to the yarns; and weaving the yarns into a yarn net

FIBERS AND SHEET-FORM TEXTILES PROVIDED WITH INSECT-REPELLENT FINISHES

**COGNIS IP MAN GMBH**

**EP1845186**

The present invention relates to fibers and sheet-form textiles which are characterized in that they are finished with mixtures of (a) microencapsulated insect repellents and (b) binders.

COVALENT CONJUGATES OF COTTON AND SUBSTITUTES (VISCOSE, MODAL COTTON) WITH BIOACTIVE SUBSTANCES HAVING ANTISEPTIC, SANITIZING, ACARICIDAL AND INSECT REPELLENT ACTIVITY, AND A METHOD FOR OBTAINING THEM

**FRANZONI FILATI S P A**

**WO2007135548**

The present invention concerns covalent conjugates of cotton and substitutes (viscose, modal cotton) with bioactive substances having antiseptic, sanitizing, acaricidal and insect repellent activity, as well as a new process for obtaining aforesaid conjugates in common equipment of the textile industry, without compromising the marketable and organoleptic properties of the cotton and its substitutes treated in this manner. The conjugates obtained by the new process are characterized by a high stability, while maintaining in the long term the antiseptic, sanitizing, acaricidal and/or insect repellent activity imparted by the procedure described herein

INSECT REPELLENT FABRIC

**INTELLIGENT FABRIC TECHNOLOGIE**

**WO2007085856**

An insect repellent fabric. The fabric comprises a fabric base and an active insect repellent ingredient. The active ingredient is contained within microcapsules and the fabric base is impregnated with the microcapsules. The preferred active ingredient is a Citronella extract or DEET.

INSECT-PROOF NET FOR SCREEN DOOR AND METHOD OF MANUFACTURING THE SAME

**SEIKI HANBAI CO LTD**

**EP1780371**

The present invention is to provide an insect net for a screen door capable of expansion/contraction in an accordion manner which is given excellent planar shape retaining performance and strength to withstand wind pressure for smooth bending action for expansion/contraction at opening/closing operation, in which a net base body (3) divided by pleats (4) and folded alternately in the opposite direction is made into a lattice structure using a core-in-sheath yarn (6) covered by a low melting resin on the circumferential face and a fiber bundle (7) bundling easily bendable synthetic resin fibers by Russell-braiding. The net base body is braided mainly of the core-in-sheath yarns so that the lateral yarns made only of the fiber bundles are arranged only between the vertical yarns at the side ends of the adjoining net base bodies, and the core-in-sheath yarns are mutually welded by heat melting of the low melting resin so as to give the planar shape retaining performance to the net base body.

INSECT REPELLENT TEXTILE

**EP1675997**

**BEIERSDORF AG**

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A textile impregnated with a preparation containing 3-(N-n-butyl-N-acetyl-amino)propionic acid ethyl ester.

**IMPROVED INSECTICIDAL TEXTILE MATERIAL**  
**SYNGENTA LTD**  
**WO2007036710**

A microencapsulated insecticide-treated fabric and a method for treating the fabric with a composition comprising at least one microencapsulated insecticide and at least one polymeric binder are provided. The coated or partially coated fabric maintains a sufficient amount of microencapsulated insecticide on the fabric surface to kill or repel insects, particularly mosquitoes, even after repeated washings. The fabric can be made into a net, clothing, and the like, for protection against insect-transmitted diseases such as malaria. A fabric treatment composition containing a suitable amount of at least one microencapsulated insecticide and at least one polymeric binder is also provided

**INSECT CONTROL NET**  
**PARK BOK SOON**  
**WO2006126762**

Disclosed is an insect control net, which includes polyester yarn and a shape material textile-printed on a surface of the polyester yarn. That is to say, polyester yarn is used as the insect control net, and a predetermined shape material is formed on its surface by textile printing to ensure visual safety and protect private life by preventing a person from looking through the insect control net due to visual attraction of the design. This insect control net may also improve fire protection by resist printing chemical treatment and also give antifungal and anion generating effects by means of antifungal treatment and coating of anion generating materials.

**Fabrics with insect repellent and a barrier**  
**GRANITEVILLE CO**  
**EP0609600**

An insect repellent fabric has a coating containing permethrin and a plasticizer, and a barrier covers the coating to protect the permethrin from degradation by ultraviolet light and oxygen. The barrier may be an acrylic coating or film, aluminum foil, a urethane coating or film, or an outer fabric barrier such as an awning or a tent fly

**Durable insect screen with improved optical properties**  
**MCGREGOR GORDON L**  
**US2006169426**

The present invention is an insect screen with improved durability designed to serve the primary purpose of keeping out very small insects and pests while maximizing visual clarity, light transmission, and airflow. The insect screen is free from macroscopic permanent deformation when subjected to a blunt instrument deformation test of at least 5 lbs. and has a total light transmission of at least 65%. The inventive insect screen comprises fibers in a warp and fill construction which define openings having a warp dimension and a fill dimension, both of said warp and fill dimensions being equal to or less than about 0.06 inches and equal to or larger than about 0.01 inches, the fibers having a diameter less than about 0.007 inches

**Insect repellent treatment of textiles**  
**UTEXBEL NV**  
**EP1598475**

The invention concerns a fabric with insect repellent properties and a method for the manufacturing of a similar fabric in which a solution comprising an insect repellent product and a binding agent on a fabric is provided whereby in the solution an acrylate and an elastomer are added in order to enhance the retention of the insect repellent product on the fabric. Hereby, a fabric is produced that retains its insect repellent properties during successive washes

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LIGNOCELLULOSIC COMPOSITE MATERIAL AND METHOD FOR PREPARING THE SAME

**BASF AGRO B V ARNHEM**

**WO2005098135**

A lignocellulosic composite material and a method for preparing the lignocellulosic composite material are disclosed. The composite material is formed from lignocellulosic particles and a binder resin. The binder resin comprises a polyisocyanate, at least one of insecticide and/or at least one of a fungicide that are dispersed throughout the polyisocyanate. The insecticide and/or fungicide is also dispersed throughout the lignocellulosic particles. Since the insecticide and/or fungicide is dispersed throughout the composite material, the composite material is insect and/or fungi resistant and is able to withstand insect attacks and prevent fungus growth and decay

Textile for use in garments protects wearer against insect, e.g. mosquito, bites through its layer structure, which prevents stinging or biting organ from reaching skin

**HAUNOLD WERNER**

**DE10241024**

The garment (11) consists of a top layer (10), e.g. a net fabric, and a spacer fabric (20). The top fabric prevents an insect from getting through and the spacer fabric is thicker than the length or penetration depth of the stinging and/or biting organ (3) of an insect (1). Independent claims are made for a manufacturing process for the textile and an associated installation.