Abstract: The invention is a textile embodiment comprising a textile layer (1) formed of knitted or woven fabric providing safe concealment against night vision, and it is characterized in that, said textile embodiment comprises an anti-night vision coating layer (2) positioned on said textile layer (1) so as to ensure near infrared concealment.
A TEXTILE EMBODIMENT

DESCRIPTION

The Related Art

The invention relates to a textile embodiment.

The invention particularly relates to a textile embodiment providing safe concealment against night vision.

Background of the Invention

Nowadays, various military materials (weapons, tanks, clothes, vehicles, etc.) used in the defence industry require concealment for having the ability of movement without being noticed by enemy forces during battle.

Concealment during the night is as important as concealment during the day in war and peace.

Nowadays, concealment with classical camouflage is not sufficient because of devices that have night vision feature. Soldiers are exposed and cannot reach their objectives, since military personnel, military vehicles, and materials cannot be concealed with the help of standard camouflage at night time due to near infrared detection devices.

In the literature, in PCT application No. WO 2000/017599, it is disclosed that: "The invention regards a material having a three-dimensional surface built up by bulgings arranged regularly or irregularly mutually adjacent, and which have approximately conical form. It is thus accomplished that the brightness of the material is little dependent on the view angle, in contrast to what is the case with plane surfaces, even if painted with matte camouflage paint."

In said application, a three-dimensional surface is formed on the fabric to provide visual camouflage. However, concealment cannot be provided in said application against devices that perform detection by night vision.
As a result of the reasons given above, need has occurred for a structure that would allow hiding of military personnel, vehicles, and military personnel equipment against night vision devices.

**Description of the Invention**

From the known status of the art, the purpose of the invention is to provide a concealment network which eliminates the prior art drawbacks.

Another purpose of the invention is to provide a structure that protects vehicles and military personnel equipment from the effects of night vision devices and ensures concealment.

Another purpose of the invention is to provide a structure that provides movement capability to military personnel and vehicles by allowing concealment in daytime and against night vision.

Another purpose of the invention is to provide a lighter structure to allow easier movement of the military personnel and vehicles.

Another purpose of the invention is to provide a robust structure that will prevent tearing in difficult terrain conditions.

Another purpose of the invention is to provide a structure that can be in different colours according to the needs.

**Description of the Figures**

Figure 1 is a view of the textile embodiment according to the invention.

**Reference Numbers**

1. Textile layer
2. Anti-Night Vision Covering Layer
Detailed Description of the Invention

In this detailed description, the novelty according to the invention is only disclosed for better understanding of the subject without forming any limiting effect.

The invention is a textile embodiment comprising a textile layer (1) formed of knitted or woven fabric providing safe concealment against night vision, and it is characterized in that; said textile embodiment comprises an anti-night vision coating layer (2) positioned on said textile layer (1) so as to ensure near infrared concealment.

Figure 1 gives a view of the textile embodiment according to the invention. Said textile embodiment consists of a textile layer (1) and an anti-night vision coating layer (2) positioned on said textile layer (1).

Said textile layer (1) is made of knitted or woven fabric.

In a preferred embodiment of the invention, said textile layer (1) is made of a synthetic material. The anti-night vision coating layer (2) found on said textile layer (1) is an infrared absorber dye layer in a preferred embodiment of the invention.

In another embodiment of the invention, said anti-night vision coating layer (2) is an infrared absorber compound layer.

In another embodiment of the invention, said anti-night vision layer (2) comprises a conductor-containing fiber.

In a preferred embodiment of said textile embodiment for providing visual concealment, printing is made by a camouflage dye. While said textile layer (1) may have camouflage paint thereon, the camouflage paint may also comprise an anti-night vision coating layer (2). In this way, said textile embodiment both has near infrared protection feature and allows visual concealment.
CLAIMS

1. The invention is a textile embodiment comprising a textile layer (1) formed of knitted or woven fabric providing safe concealment against night vision, and it is characterized in that; said textile embodiment comprises an anti-night vision coating layer (2) positioned on said textile layer (1) so as to ensure near infrared concealment.

2. A textile embodiment according to Claim 1, and it is characterized in that; said textile layer (1) is a synthetic material.

3. A textile embodiment according to Claims 1 and 2, and it is characterized in that; said anti-night vision layer (2) comprises a conductor-containing fiber.

4. A textile embodiment according to Claims 1 and 2, and it is characterized in that; said anti-night vision layer (2) is an infrared absorber paint layer.

5. A textile embodiment according to Claims 1 and 2, and it is characterized in that; said anti-night vision layer (2) is an infrared absorber compound layer.

6. A textile embodiment according to any one of the above given claims, and it is characterized in that; said textile layer (1) comprises camouflage paint.

7. A textile embodiment according to any one of the above given claims, and it is characterized in that; said camouflage paint comprises an anti-night vision layer (2).
Figure 1
### A. CLASSIFICATION OF SUBJECT MATTER

**INV. F41H3/02**

According to International Patent Classification (IPC) or to both national classification and IPC.

### B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

F41H

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched:

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

- EPO-Internal
- WPI Data

### C. DOCUMENTS CONSIDERED TO BE RELEVANT

<table>
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<td>wo 2005/010455 AI (OMNOVA WALLCOVERING UK LTD [GB]; OMNOVA SOLUTIONS INC [US]; MARSHALL A) 3 February 2005 (2005-02-03) pages 8, 11-13</td>
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<td>wo 2010/138090 A2 (0ZTEK TEKSTIL TERBIYE TESISLERI SANAYI VE TICARET ANONIM SI RKETI [TR] ;) 2 December 2010 (2010-12-02) page 4, line 16 - page 6, line 28; claims 1,4; figure 1</td>
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  - **X** document containing general state of the art which is considered to be of particular relevance.
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  - **A** document member of the same patent family.

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Beaufume, Cedric
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