A fabric with a reflection surface includes a base layer made by light transmittable material and a mediate layer defined in the base layer and includes a plurality of cone-shaped protrusions. Each protrusion has a plurality of angled surfaces and a reflection layer which is a metal layer coated on the mediate layer.
FIELD OF THE INVENTION

The present invention relates to a fabric having a plurality of cone-shaped protrusions and the outer surface of each protrusion is coated with a metal layer so as to reflect light in different angles.

BACKGROUND OF THE INVENTION

A conventional fabric that reflects light generally includes a silver powder layer attached to the fabric and a plurality of tiny glass pieces are randomly connected to the silver powder layer so that light is reflected by the silver powder layer and then refracts through the glass pieces. However, the silver powder layer generally is a rough surface so that it cannot reflect the light as expected.

The present invention intends to provide a fabric that includes a plurality of cone-shaped protrusions coated with a metal layer which reflects light excellent and the protrusions include different heights and angled surfaces so that the fabric looks shiny.

SUMMARY OF THE INVENTION

The present invention relates to a fabric with a reflection surface and the fabric comprises a base layer made by light transmittable material and a mediate layer is defined in the base layer so as to form a plurality of cone-shaped protrusions. Each protrusion has a plurality of angled surfaces. A reflection metal layer is coated on the mediate layer which reflects light.

The present invention will become more obvious from the following description when taken in connection with the accompanying drawings which show, for purposes of illustration only, a preferred embodiment in accordance with the present invention.

BRIEF DESCRIPTION OF THE DRAWINGS

FIG. 1 shows a roller rolls on the base layer;
FIG. 2 shows the mediate layer including cone-shaped protrusions is formed on the base layer;
FIG. 3 shows that the mediate layer is rolled twice to form the cone-shaped protrusions of different heights;
FIG. 4 shows the reflection metal layer is coated on the mediate layer, and
FIG. 5 is a perspective view to show the fabric of the present invention.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

Referring to FIGS. 1 to 4, the fabric of the present invention comprises a base layer 1 made by light transmittable and heat durable material which can be PVC, TPU or PET. A mediate layer 2 is defined in the base layer 1 by using rollers 200 to roll the base layer 2 as shown in FIG. 1. The rollers include cone-shaped protrusions so that a plurality of cone-shaped protrusions are defined in the base layer 1. The rollers 200 roll the base layer 1 twice to let the protrusions to have a plurality of angled surfaces and different heights. A reflection layer 3 which is a metal layer is electro-plated on the mediate layer 2. The reflection layer 3 includes smooth surfaces so as to reflect light in different angles.

By the angled surface and different heights of the protrusions, the fabric reflects the light in different angles to make the fabric shiny and colorful.

While we have shown and described the embodiment in accordance with the present invention, it should be clear to those skilled in the art that further embodiments may be made without departing from the scope of the present invention.

What is claimed is:

1. A fabric with a reflection surface, comprising:
   a base layer made by light transmittable material;
   a mediate layer defined in the base layer and including a plurality of cone-shaped protrusions, each protrusion having a plurality of angled surfaces, and
   a reflection layer being a metal layer which is coated on the mediate layer.

2. The fabric as claimed in claim 1, wherein the mediate layer is made by using rollers to roll the base layer and the rollers include cone-shaped protrusions.

3. The fabric as claimed in claim 1, wherein the reflection layer is electro-plated onto the mediate layer.

4. The fabric as claimed in claim 1, wherein the base layer is made by PVC, TPU or PET.