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US Patent No ; 6966072, D499069, D477706, D510178,
No:7,681,253
CN 162272, CN 10115556, AU773238, KR 10-0626541,
EU; D-Patent. P PCT; WO 2006/109545
JP Patent No: 3975453, 4096085, 450109, 2005-140336,
D1039291, D1147947, D1176540, D1385343, and others

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coolbit is an international trademark.

coolbit. Cool Visor Patent.

The United States of America

The Director of the United States Patent and Trademark Office

Has received an application for a patent for a new and useful invention. The title and description of the invention are enclosed. The requirements of law have been complied with, and it has been determined that a patent on the invention shall be granted under the law.

Therefore, this

United States Patent

Grants to the person(s) having title to this patent the right to exclude others from making, using, offering for sale, or selling the invention throughout the United States of America or importing the invention into the United States of America for the term set forth below, subject to the payment of maintenance fees as provided by law.

If this application was filed prior to June 8, 1995, the term of this patent is the longer of seventeen years from the date of grant of this patent or twenty years from the earliest effective U.S. filing date of the application, subject to any statutory extension.

If this application was filed on or after June 8, 1995, the term of this patent is twenty years from the U.S. filing date, subject to any statutory extension. If the application contains a specific reference to an earlier filed application or applications under 35 U.S.C. 120, 121 or 365(c), the term of the patent is twenty years from the date on which the earliest application was filed, subject to any statutory extensions.

Director of the United States Patent and Trademark Office

coolbit. Cap & Hat Patent.

US006966072B1

(12) **United States Patent**
Kobayashi

(10) Patent No.: **US 6,966,072 B1**
(45) Date of Patent: **Nov. 22, 2005**

(54) **HAT WITH SHADING COVER AND HOOD WITH SHADING COVER**

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(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

(21) Appl. No.: **10/069,932**
(22) PCT Filed: **Sep. 14, 2000**
(86) PCT No.: **PCT/JP00/06310**
§ 371(c)(1), (2), (4) Date: **Mar. 5, 2002**
(87) PCT Pub. No.: **WO01/35778**
PCT Pub. Date: **May 25, 2001**

(30) **Foreign Application Priority Data**
Nov. 15, 1999 (JP) 11361465

(51) Int. Cl.⁷: **A42B 1/24**
(52) U.S. Cl.: **2209.13**
(58) **Field of Search**: 2209.13, 175.6, 2/202, 205, 206, 195.1, 200.1: 607/109, 110

(56) **References Cited**
U.S. PATENT DOCUMENTS
4,180,868 A * 1/1980 Snow 2/203
5,046,195 A * 9/1991 Kortan 2/172

5,161,260 A * 11/1992 Reynolds 2/207
5,557,807 A * 9/1996 Hajar et al. 2/171,2
5,683,120 A * 2/1997 Gilford 2/172
5,605,144 A * 2/1997 Simmons et al. 126/204
5,623,732 A * 4/1997 Ohajide, Jr. 2/195.1
5,669,074 A * 9/1997 Newman, Jr. 2/172
5,950,241 A * 9/1999 Gomez 2/172
5,956,795 A * 9/1999 Benedict 2/172
6,381,750 B1 * 5/2002 Mangan 2/10

FOREIGN PATENT DOCUMENTS
JP 3-269107 11/1971
JP 4-39379 2/1992
JP 7-33942 6/1995
JP 9-170108 6/1997
JP 10-339536 12/1998

* cited by examiner
Primary Examiner—Katherine M Moran
(57) **ABSTRACT**

A cap has a cap body; a sunshade cover removably and rotatably connected to the cap body by means for connecting, having a cooling material; the connecting means having a projection received in a recess, arrangement of the projection in the recess allowing for rotation of the sunshade cover between the extended and stored positions; and a fixing means for detachably fixing the sunshade cover in either the extended position or the stored position so that it can protect the back part of the head and nape of a person under a scorching sun from the direct rays and the heat of the sun and having a cold insulator incorporated therein to keep cool the head and nape of the wearer for a long time.

7 Claims, 5 Drawing Sheets

WO 2006/109545 A1

(12) 特許協力条約に基づいて公開された国際公開

(19) 世界的な所有権機関 国際事務局

(43) 国際公開日 2006年10月19日 (19.10.2006)

PCT

(10) 国際公開番号 **WO 2006/109545 A1**

(51) 国際特許分類: **A42B 1/24 (2006.01)** (81) 指定国 (表示のない限り、全ての種類の国際保護が可能な): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CZ, CU, DE, DK, DM, DZ, EC, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, VC, VN, YU, ZA, ZM, ZW.

(52) 国際出願番号: **PCT/JP2006/306061**

(21) 国際公開日: **2006年3月20日 (20.03.2006)**

(25) 国際公開の言語: **日本語**

(26) 国際公開の言語: **日本語**

(30) 優先権主張: **特願2005-140339 2005年4月11日 (11.04.2005) JP**

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(84) 指定国 (表示のない限り、全ての種類の国際保護が可能な): AR, AU, BW, GE, GM, IL, IS, MW, NZ, SA, SD, SL, SZ, TZ, UG, ZM, ZW), ユーロピア (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), ユーロッパ (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IL, IT, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TN, TR, TT, TZ, UA, UG, US, VC, VN, YU, ZA, ZM, ZW.)

(86) 出願人 / 発明者 /

(54) Title: **COOLING MEMBER FOR USE IN HAT OR THE LIKE**

(54) 発明の名称: **帽子等に用いる冷却部材**

(57) Abstract: A cooling member for cooling the forehead, face and nape of a person or imparting cool feeling. The cooling member comprises a water absorbing material sheet sandwiched between a plastic planar material provided with a ventilation means, having an adequate hardness, and capable of holding its shape, capable of being bent in a pre-determined direction and in the reverse direction a plurality of times, and having a curvature in the pre-determined direction and backing cloth having a similar area and a means for dividing the water absorbing material sheet into parts each having an adequate area corresponding to a vent in such a way that water absorbed in the water absorbing material sheet does not flow out easily into adjacent parts and is used for cooling by allowing the water absorbing material sheet to absorb water and by using its heat of evaporation to cool the surroundings. The cooling member constitutes the brim portion of a hat, sun visor, or the like, or a pad portion for the forehead, face or nape of the person and provides a means for imparting a cool feeling to each heat generating portion of the human body. As preparation for use, the cooling member is dipped into water and bent by applying a force reversibly to the curvature in the pre-determined direction. Consequently, excess water and water drops are squeezed out easily and uniformly with only the cooling member without wetting the hand of the person. The cooling member is employed for a hat or the like by realizing a uniform cooling surface and by obtaining uniform heat of evaporation.

(57) 要約: 本発明は、人の額、顔面、わきの下を冷却、または、涼冷感を帯びるためのものである。透気手段を設けた可塑性で適度な硬度を有し形状保持でき、一定方向への折り曲げ、及び、その逆方向への折り曲げ直しが種数回可能で、前記一定方向への両面を有する柔軟材と、それと同様な両面を有する下部が硬質で、吸水材シートを挟み込んで、前記透気穴に相当する適度な硬質の冷却部材シートに定まる水の吸収の部分が突出し、ずれい種小分調整手段を有し、前記吸水材シートに水を含ませその蒸発熱でその両面を冷やす冷却部材である。前記冷却部材で帽子、サンバイザー等のつば部を構成し、人の額、顔面を、また、わきの下のパッド部等を構成し、それぞれ人体の発熱部に冷却部材をもちらす手段を提供できる。これらの使用準備として、前記冷却部材を水に浸し、その後、前記一定方向の両面とは逆の方向にかを屈曲させ、余分な水分、水滴を帯び、前記冷却部材をそれたけ、かつ、人の手を濡らすことなく均一に乾かし出し、しては、均一な蒸発熱を帯びる冷却部材を帽子等に用いる冷却部材である。