

German utility model no. DE202018104657U1

Headgear that can also cool the body

#### Description

My invention is based on the further development of cooling headgear and a very simple principle. There are many solutions for cooling headgear, such as caps like baseball caps, hats, brimmed hats, hoods, which - like the present headgear - also provide sun protection:

Headgear with a fan, e.g., CN000201790030U,

Headgear with neck protection, e.g., CN000202800264U, US000005557807A (with Velcro fastener),

Headgear with steam/mist, e.g., CN000206525615U,

Headgear with evaporative cooling using an attached water band, e.g., CN000002798645Y, CN000207041017U,

Headgear with solar-cell-assisted cooling, e.g., CN000201888294U,

Headgear with circulating water, e.g., CN000201153544Y,

Headgear with the additional ability to drink, e.g., CN000203646572U, CN000202233210U, CN000201323910Y.

The existing solutions are sometimes expensive, complex, cumbersome, and mostly cool only the head. If a water filling is necessary, a special adapter is often required. Additional cooling of the body is desired at high temperatures, and the invention in claim 1 of a headgear that can also cool the body works without energy expenditure using flowing water that, among other things, wets the neck, nape, body, and clothing.

An exemplary embodiment in the form of a modified baseball cap with a higher head portion (high profile):

In the otherwise air-filled area between the skullcap and the upper part of the headgear (here the upper part of the high baseball cap under the button), there is - as shown in claim 2 - a water tank. According to claim 3, the water tank should be flexible (e.g., soft plastic) so that it adapts to the shape of the head. Between the water tank and the head, a layer of fabric is recommended for wearing comfort, as shown in claim 4.

A discreet (preferably in the color of the fabric), large (so that ice cubes can also go into the tank), e.g., plastic screw cap of the water tank, simultaneously serving as the button that otherwise holds the panels together, in the middle of the upper part of the headgear - as shown in claim 5 - allows for quick water filling - e.g., from a canister, tap, or hose, even without an adapter - and also allows for emptying. A (membrane) valve can be attached to the underside of the screw cap to prevent backflow, as shown in claim 6.

When the screw is tightened, the headgear primarily serves to cool the head through the water tank. Opening the screw cap allows easy dosing of the water flow, even when the headgear is worn. Additionally, a strong water flow can be achieved by pressing on the cap and thus on the tank.

For the water outlet from the tank - as shown in claim 7 - several options exist: a tank that, for example, extends through an extension to the rear - lower part of the headgear, with holes, e.g., at the edges in the lower part, approximately from the middle to the back of the headgear, so that the water does not disturbingly run through the face. Another option consists of (e.g., flat) tubes that bypass the hair, start from the tank, and could also be individually clamped for targeted water flows. These could also be integrated into the headgear and reach down to the lower edge of the headgear.

It is possible to wet the entire headgear with water when filling the tank, providing an additional cooling evaporation effect. Different materials for the headgear are possible. Light materials would not additionally warm the headgear.

Depending on the need, it might be sensible to equip the baseball cap or other headgear with a water-conducting neck protection (e.g., with Velcro fasteners, press studs, or magnets), as shown in claim 8.

There can be headgear for fixed sizes (fitted) or for different head sizes with an elastic sweatband, press stud, clamp, or Velcro fastener. When the screw is tightened, the water tank - as with other headgear - cools the head even without flowing water. Additionally, the visor or brim provides sun protection.

After using the headgear, as shown in claim 9, the cap can be turned inside out into an integrated waterproof plastic bag.

The headgear with flowing water is primarily not intended for use indoors, but, for example, for work in the hot sun, in the field, in the garden, on a construction site, or while walking.

In addition to baseball caps, hats and other brimmed hats with additional sun protection can also be combined with the above-mentioned water tank. Of course, only clean water should be used. Furthermore, care should be taken that the clothing does not bleed and no water-sensitive devices come into contact with moisture.

## Claims

1. Headgear that can also cool the body, characterized in that it wets the neck, nape, and body with water without energy expenditure.
2. Headgear that can also cool the body, according to claim 1, characterized in that there is a water tank in the otherwise air-filled area between the skullcap and the upper part of the headgear.
3. Headgear that can also cool the body, according to one of the preceding claims, characterized in that the water tank should be flexible (e.g., soft plastic).
4. Headgear that can also cool the body, according to one of the preceding claims, characterized in that it has a layer of fabric between the water tank and the head.
5. Headgear that can also cool the body, according to one of the preceding claims, characterized in that it has an inconspicuous, large, e.g., plastic screw cap of the water tank in the middle of the upper part of the headgear.
6. Headgear that can also cool the body, according to one of the preceding claims, characterized in that a (membrane) valve is attached to the underside of the screw cap.
7. Headgear that can also cool the body, according to one of the preceding claims, characterized in that several options exist for the water outlet from the tank, such as a tank that extends to the rear - lower part of the headgear with holes, e.g., at the edges in the lower part, approximately from the middle to the back of the headgear. Or with (e.g., flat) tubes that start from the tank, could also be integrated into the headgear, could also be individually clamped, and reach down to the lower edge of the headgear.
8. Headgear that can also cool the body, according to one of the preceding claims, characterized in that this headgear can be equipped with a water-conducting neck protection.
9. Headgear that can also cool the body, according to one of the preceding claims, characterized in that after use, the headgear can be turned inside out into an integrated waterproof plastic bag.

No figures.