

# Utility Model: Device to deliver a filtered air flow

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## Description

The present document summarizes the invention *Dispositivo dispensador de un flujo de aire filtrado*, registered by the Spanish Official Bulletin of Industrial Property<sup>1</sup> with the following patent number: ES 1259855 U.

1. Device to deliver a filtered air flow, which comprises a chassis or supporting structure (1) containing a number of holes or slots (2) which deliver the air filtered by several filters located at the supporting structure (1), at the level of an air intake from at least a fan or air pump (3) located at the supporting structure (1); and the fan or air pump (3) is fed through a battery working through electrical connection, based on a micro-USB or equivalent, located at the supporting structure (1).
2. Device to deliver a filtered air flow according to claim 1 where the filters can be replaced.
3. Device to deliver a filtered air flow according to any of the claims 1–2, where the fan or air pump (3) is located on the side, the front or the back of the supporting structure (1).
4. Device to deliver a filtered air flow according to any of the claims 1–3 where the holes or slots (2) have a diameter of around 1–20 mm.
5. Device to deliver a filtered air flow according to any of the claims 1–4 where the filters are HEPA filters with an efficiency of 99.95%.
6. Device to deliver a filtered air flow according to any of the claims 1–5 where the supporting structure (1) has the shape of glasses and comprises temples (1a) associated to a frame (1b), where the fan (3) is located.

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<sup>1</sup><https://consultas2.oepm.es/bopiweb/descargaPublicaciones/resultBusqueda.action;jsessionId=ZUNcl1Nu6R6PLFbiIYg8u87A.Consultas2>

7. Device to deliver a filtered air flow according to any of the claims 1–6 where the supporting structure (1) has the shape of a cap, where the holes or slots (2) are integrated into the panel or panels (1c) that comprise it and a flat top (1d).
8. Device to deliver a filtered air flow according to claim 6 where the supporting structure (1) is realized into a single unit.
9. Device to deliver a filtered air flow according to claim 6 where the supporting structure (1) is realized from the temples (1a) and the frame (1b), and they are kept together through tight fitting, clipping or an equivalent technical solution.

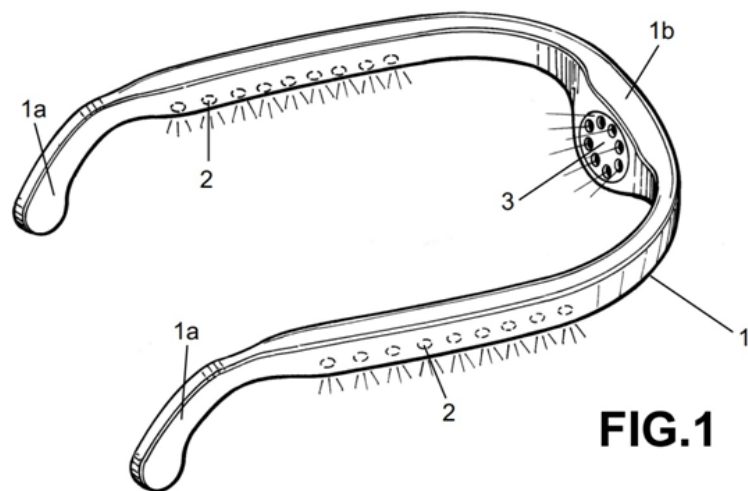


Figure 1: Figure 1 from utility model with patent number ES 1259855 U.

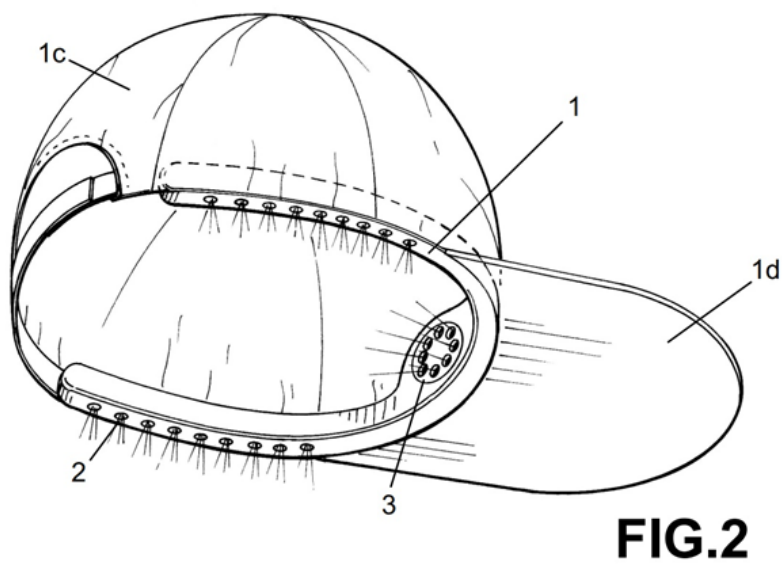


Figure 2: Figure 2 from utility model with patent number ES 1259855 U.

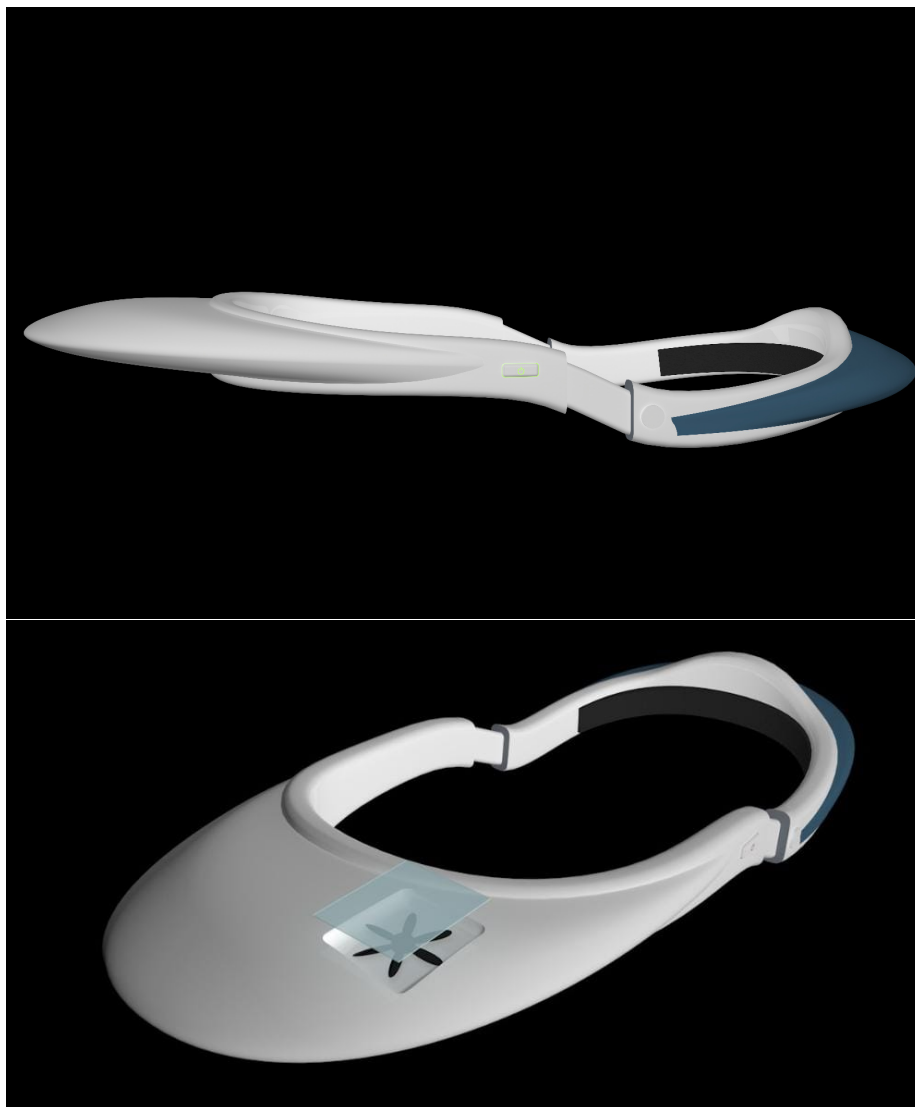


Figure 3: Three-dimensional visualizations of the invention