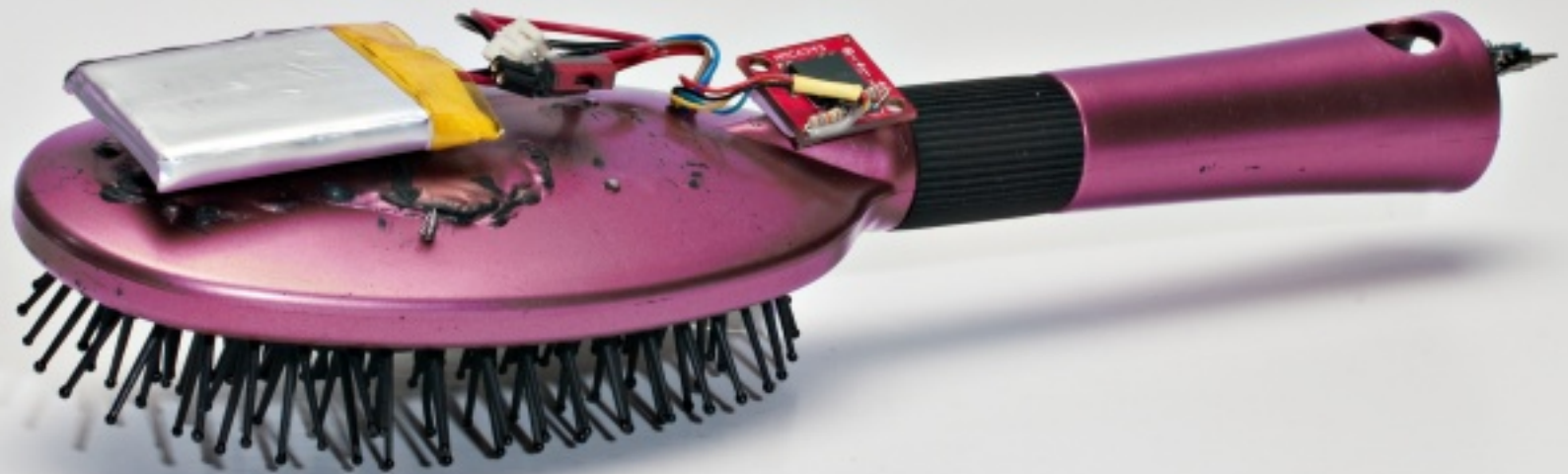


## Uruca Caliandrum

### A hairbrush witnessing for sunrises

The hairbrush comes with an built-in OrientationAssistance™<sup>1</sup>. This OrientationAssistance™ assists machines to perceive the sunrise. Here it's built in the hairbrush, but as an add-on the OrientationAssistance™ can be plugged/mounted on any responsive object/machine.

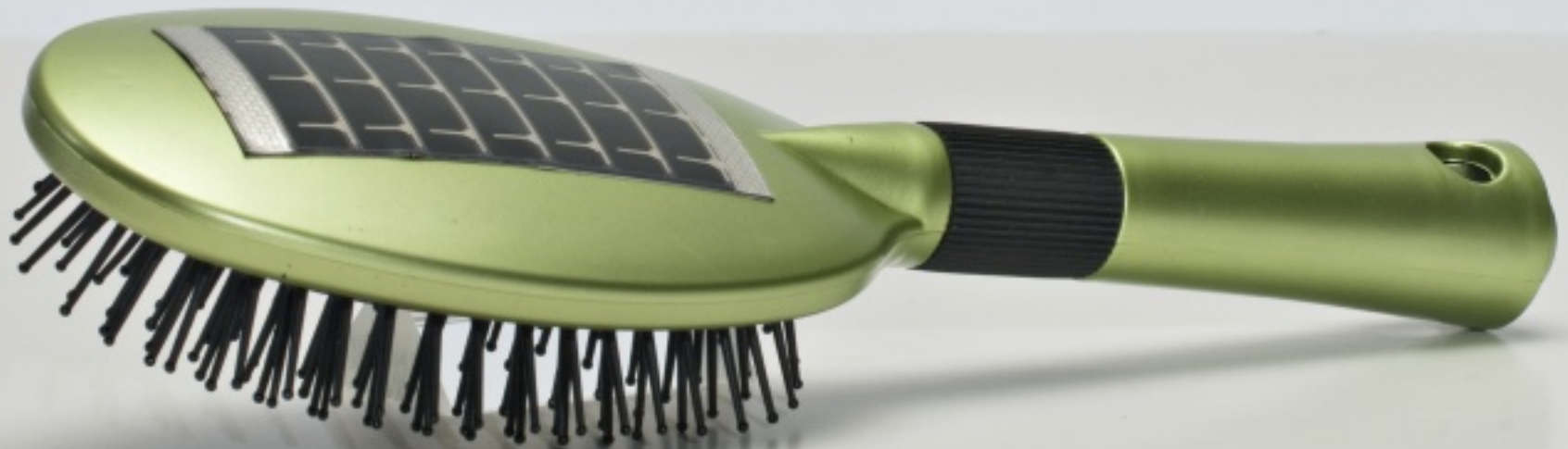
The hairbrush is also able to move. Running a wave pattern on 3 motors hidden under the brushes gives it the ability to move similar to a caterpillar.



## Description: A hairbrush witnessing for sunrises

With the break of dawn the hairbrush wakes up and starts moving in the direction of the sunrise. As soon as it reaches a nice position to gaze at the sunrise the hairbrush congeals.

During the day it will regain the energy loss from the morning exercise with the help of the solarcells on it's back. In this time and also during the night it then can be used as an everyday hairbrush, before it then with the break of dawn will awake again.



## Context: bio inspiration - chindogu

The idea of the hairbrush came while visiting a lecture on 'bio inspired robotics'<sup>2</sup> at the University of Zürich. In this lecture we were studying principles from nature to design simple control methods and locomotion principles for robots. My intention was to imitate a caterpillar-like locomotion of a hairbrush.

Inspiring was also the principle of **Chindogu**<sup>3</sup>: individual elements of an apparatus are recognizable but the reason for combining them is at first bewildering. The meaning behind the object is derived from "sense-fiction": the object makes functional sense, but is still useless.



Figure 1: Hairbrush 'uruca caliantrum' backwards



Figure 2: Orgyia antiqua on the run

## References

- 1 OrientationAssistance™ is a trademark of Nicolaus Copernicus & co
- 2 Bio-inspired Robotics lecture by Dr. Lijin Aryananda, Department of Informatics, University of Zurich
- 3 Hertzian tales : electronic products, aesthetic experience, and critical design / Anthony Dunne. - Cambridge, Mass. : MIT Press, 2005.

## Images

Titel & Page2: Courtesy of Thorsten Strohmeier

Figure 1-4: Courtesy of hasa-labs.org