

Title (en)
Self-chilling container

Title (de)
Selbstkühlender Behälter

Title (fr)
Récipient autoréfrigérant

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Abstract (en)
The present invention consists of a self-chilling container comprising a receptacle capable of containing a liquid; a flexible sorption cooling element wrapping the receptacle and a casing surrounding both the receptacle and the flexible sorption cooling element. The sorption cooling element comprises an evaporation region defined by a first external multilayer film wrapping the peripheral walls of the receptacle, and a sorption region configured to evacuate heat from the evaporation region. The invention provides a highly efficient device capable of achieving cooling powers higher than 80 W for receptacles of 4 liters of carbonated drinks, ensuring the integrity of the user by isolating the sorption components which, during the cooling process, can acquire high temperatures. Additionally, the invention is able to provide a container which can be easily produced and stacked with a competitive cost for its components.

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Citation (applicant)
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