

## Title (en)

A self cooling container and a cooling device

## Title (de)

Selbstkühlender Behälter und Kühlvorrichtung

## Title (fr)

Conteneur auto-réfrigérant et dispositif de refroidissement

## Publication

**EP 2397796 A1 20111221 (EN)**

## Application

**EP 10166014 A 20100615**

## Priority

EP 10166014 A 20100615

## Abstract (en)

The present invention relates to a container (10') for storing a beverage, the container having a container body (12) and a closure (16) and defining an inner chamber, the inner chamber defining an inner volume and including a specific volume of the beverage. The container (10') further includes a cooling device (20') having a housing defining a housing volume. The cooling device (20') includes at least two separate, substantially non-toxic reactants (29) causing an entropy-increasing reaction producing substantially non-toxic products in a stoichiometric number. The at least two separate substantially non-toxic reactants (29) initially being included in the cooling device (20') are separated from one another and causing an entropy-increasing reaction and a heat reduction of the beverage of at least 50 Joules/ml beverage. The cooling device (20') further includes an actuator for initiating the reaction between the at least two separate, substantially non-toxic reactants (29).

## IPC 8 full level

**F25D 5/02** (2006.01)

## CPC (source: EP)

**F25D 5/02** (2013.01); **F25D 2331/805** (2013.01)

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