

Title (en)

ENVIRONMENTAL CONDITIONING SYSTEM FOR CUT FLOWERS AND OTHER FLORA

Title (de)

UMGEBUNGSKLIMATISIERUNGSSYSTEM FÜR SCHNITTBLUMEN UND ANDERE PFLANZEN

Title (fr)

SYSTÈME DE CONDITIONNEMENT ENVIRONNEMENTAL POUR FLEURS COUPÉES ET AUTRE FLORE

Publication

**EP 3057406 A1 20160824 (EN)**

Application

**EP 13895699 A 20131017**

Priority

US 2013065343 W 20131017

Abstract (en)

[origin: WO2015057223A1] An environmental controlling system to better preserve cut flowers and other flora in vase water. The system uses thermoelectric modules, heat exchangers, fans, power supply, and a thermal conductor to cool and/or heat the water in a flower vase as required. By cooling the water, formation of algae and formation of a callus on the cut stem is reduced. In addition, keeping the stems in water of optimal temperature controls production of ethylene and other phytohormones. These effects prevent premature wilting, leaf abscission, flower senescence, and reduces the care required to maximize the life of cut flowers and other flora. In the event of cold ambient conditions that might cause freezing, the flow of heat can optionally be reversed, warming the water in the vase to avoid freezing the stems and/or maintain optimum temperature and other conditions for a specific variety of flora.

IPC 8 full level

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CPC (source: EP)

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