Title (en)

METHOD AND DEVICE FOR PRODUCING SNOW

Title (de)

VERFAHREN UND VORRICHTUNG ZUR HERSTELLUNG VON SCHNEE

Title (fr)

PROCÉDÉ ET DISPOSITIF DE PRODUCTION DE NEIGE

Publication

EP 2475941 A2 20120718 (DE)

Application

EP 10770939 A 20100909

Priority

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- AT 2010000325 W 20100909

Abstract (en)

[origin: WO2011029115A2] The invention relates to a method for producing substantially dendritic snow, comprising: a) feeding a flow of humid air (1) and a flow of cold air (9) into a substantially closed space in order to mix the two flows therein and thus to form an atmosphere supersaturated with water in the space; b) forming ice crystals and allowing snowflakes to grow from the supersaturated atmosphere within the substantially closed space, wherein the growing ice crystals and snowflakes are kept in a suspended state within the substantially closed space and allowed to grow for a predetermined time frame that is sufficient for obtaining snowflakes of a predefined size, wherein the suspended state is achieved in that the growing ice crystals and snowflakes are moved by the air flow on average along a substantially helical path, which causes a distribution of the snowflakes according to the size thereof along the substantially helical path; c) discharging the snowflakes having a predefined size after the predetermined time frame by means of a carrier air flow (3) through a discharge opening (7) of the substantially closed space.

IPC 8 full level

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CPC (source: AT EP US)

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