

Title (en)  
APPARATUS FOR MAKING ARTIFICIAL SNOW

Title (de)  
VORRICHTUNG ZUR HERSTELLUNG VON KUNSTSCHNEE

Title (fr)  
DISPOSITIF POUR LA PRODUCTION DE NEIGE ARTIFICIELLE

Publication  
**EP 3040657 A1 20160706 (EN)**

Application  
**EP 15003474 A 20151207**

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201400440 20141209 SI

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SI 201400440 A 20141209

Abstract (en)  
The proposed invention is a new product, designed as an apparatus for making artificial snow - snow cannon, comprised of a certain quantity of assembled parts and assemblies, installed inside the snow cannon housing (1), inside the central part of which there is installed a special snow cannon electric motor 3, behind which as observed in the direction of air flow a nucleator 6 is positioned in the centre, immediately behind the tip of the electric motor stator's 3 aerodynamic shape, and at the air flow exit A there is a round tube with one or several annular segments 5.0.2 with water nozzles 5. The nucleator 6 ejects into the atomizing space small quantities of water under high pressure to create a water mist 6.2, that is a narrowly focused jet, which then mixes with the water droplets 5.1 coming from the water nozzles 5 at a minimum distance of a  $\approx$  1,3 m. The mixing is made possible because the fan blades 2 create a strong enough vortex air flow 4.1.1, which mixes with the water 5.1 from the nozzles 5 and the icy water mist 6.2 from the nucleator no sooner than in point 4.1.1.1, and so in point 4.1.1.1 the icy mantle formed around supercooled water droplets 6.2 coming from the nucleator 6 is mixed with water 5.1, and in the continuation of the air flow A the mixture is converted into artificial snow 7.

IPC 8 full level  
**F25C 3/04** (2006.01)

CPC (source: EP)  
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