

Title (en)  
A NOZZLE FOR A SNOWMAKING APPARATUS, A SNOW LANCE HEAD AND A METHOD FOR PRODUCING A SLITTED HOLLOW CONE SPRAY

Title (de)  
DÜSE FÜR EINE SCHNEEHERSTELLUNGSVORRICHTUNG, SCHNEELANZENKOPF UND VERFAHREN ZUR ERZEUGUNG EINER GESCHLITZTEN HOHLKEGELSPRÜHUNG

Title (fr)  
BUSE POUR APPAREIL DE FABRICATION DE NEIGE, TÊTE DE LANCE À NEIGE ET PROCÉDÉ POUR PRODUIRE UNE PULVÉRISATION CONIQUE CREUSE FENDUE

Publication  
**EP 3614077 A1 20200226 (EN)**

Application  
**EP 18190217 A 20180822**

Priority  
EP 18190217 A 20180822

Abstract (en)  
A nozzle (1) for a snowmaking apparatus for producing a slitted hollow cone spray (2) wherein the slitted hollow cone spray (2) is formed by a spray curtain (4) of water droplets (6), said spray curtain (4) having the shape of a hollow cone with a slit (8) that forms a lateral air path (10) into a hollow cone interior (14); the nozzle (1) comprises a water swirler (30) configured to receive and to guide a flow of water (80) such that a flow of swirling water (82) with a rotational motion is produced, a spray outlet (42) configured to receive the flow of swirling water (82) from the water swirler (30) and to eject it through an orifice (40), wherein the orifice (40) is shaped so as to define a flow diverter (44) configured to locally disturb the rotational motion as the water is being ejected, whereby the spray outlet (42) is configured to eject a spray curtain (4) of water droplets (6) in the shape of a conical surface with a lateral slit (8) formed by the flow diverter (44).

IPC 8 full level  
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CPC (source: EP)  
**B05B 1/06** (2013.01); **B05B 1/341** (2013.01); **F25C 3/04** (2013.01); **F25C 2303/048** (2013.01)

Citation (search report)

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