

Title (en)
Method and apparatus for the automatic production of snow.

Title (de)
Verfahren und Vorrichtung zur automatischen Erzeugung von Schnee.

Title (fr)
Procédé et dispositif de fabrication automatique de neige.

Publication
EP 0004803 A2 19791017 (FR)

Application
EP 79400170 A 19790315

Priority
FR 7810688 A 19780331

Abstract (en)
1. A process for the production of snow by spraying water droplets, comprising the step of controlling at least the water flow to be sprayed and frozen at the measured ambient complete cold, characterized in that it comprises the steps of measuring the velocity and the moving direction of the ambient air on purpose to determine a measured value of the renewed ambient air volume, of detecting the water flow value and of automatically regulating by means of a regulation and control device, the water flow by control means which cause each value of the measured ambient complete cold, according to the laws of correspondence, and each value of the hourly volume of the measured new ambient air to correspond to a value of said water flow, and also of regulating the water flow as a function of the gap between the proper value of the measured water flow determined from said laws of correspondence, on purpose to cause the water flow to correspond to the ambient complete cold and the hourly volume of the renewed ambient air, as to cancel said gap.

Abstract (fr)
Le secteur technique de l'invention est celui de l'enneigement artificiel des pistes à usage sportif. L'invention se rapporte à un procédé et un dispositif de fabrication de neige entièrement automatisée obtenue par l'asservissement des moyens de production de la neige, aux conditions climatiques. Des détecteurs mesurent et transmettent les signaux correspondant aux grandeurs représentatives des conditions de congélation, à un appareillage de régulation qui commande le fonctionnement des moyens de fabrication de la neige dont notamment le réglage du débit d'eau à congeler. L'invention peut être utilisée pour produire la neige soit directement sur les pistes de ski, de luge, de saut, de bobsleigh, soit sur des emplacements choisis d'où la neige sera acheminée sur les pistes à enneiger.

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Cited by
EP0089590A1; EP0018280A3; EP0206705A1; FR2573854A1; EP0187563A1; US5180106A; EP0787960A3; FR2634663A1; US4593854A; EP0605824A1; US4597524A; EP0609140A1; FR2700835A1; US5445320A; FR2609327A1; FR2579732A1; US4836446A; EP0461160A4; EP1065456A1; EP0798520A3; ES2125128A1; US5230218A; GR890100412A; WO03036198A1; WO8912793A1; WO8605864A1; WO9111669A1; US7062926B2; US7269959B2; EP4095464B1

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