

USPTO PATENT FULL-TEXT AND IMAGE DATABASE

(1 of 1)

United States Patent
Worsfold

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Apparatus for producing fog

Abstract

A method of producing a breathable fog comprises (a) passing air through a dryer unit to remove moisture; (b) cooling the dried air to a temperature below 0.degree. C.; and (c) inducing water vapor into the dried and cooled air to produce breathable fog.

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Current International Class: B01F 3/04 (20060101); A63J 005/02 (); E01H 013/00 ()
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Claims

I claim:

1. A method of producing fog comprising the steps of:
 - (a) passing air through a drier unit to remove moisture;
 - (b) cooling the dried air to a temperature below 0.degree. C.; and
 - (c) inducing water vapor into the dried and cooled air to produce breathable fog.
2. A method as claimed in claim 1, in which during the cooling step the dried air is passed through a heater exchanger through which flows a cryogen.
3. A method as claimed in claim 2, in which the cryogen is liquid nitrogen.
4. A method as claimed in claim 1, in which during the inducing step the dried and cooled air is passed through a heated water bath.
5. A method as claimed in claim 1, in which during the inducing step the dried and cooled air is passed through a steam generator.
6. An apparatus for producing fog comprising means for directing a stream of air through a drier unit, means for cooling the air to a temperature below 0.degree. C. located downstream of the drier unit and means for inducing water vapor into the air stream located downstream of the cooling means.
7. An apparatus as claimed in claim 6, in which the cooling means is a heat exchanger.
8. An apparatus as claimed in claim 6, in which the inducing means is a water bath in which is located a heater.

Description
