

(21) Application No: **1009335.9**

(22) Date of Filing: **26.11.2007**

(86) International Application Data:
PCT/SG2007/000407 En 26.11.2007

(87) International Publication Data:
WO2009/070123 En 04.06.2009

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(51) INT CL:
A61L 9/01 (2006.01) **A01N 59/16** (2006.01)
A61L 9/12 (2006.01) **C09D 183/08** (2006.01)

(56) Documents Cited by ISA:
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(58) Field of Search by ISA:
INT CL **A01N, A61L, B01D, C09D**
Other: **WPAT, JAPIO, CAPLUS, MEDLINE, USPTO,**
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(54) Title of the Invention: **An antimicrobial porous substrate and a method of making and using the same**
Abstract Title: **An antimicrobial porous substrate and a method of making and using the same**

(57) A method of preparing an antimicrobial air filter comprising the steps of: soaking a porous material in a silver nanoparticle colloid; and coating the porous material embedded with silver nanoparticles with a silane quaternary ammonium polymer such that the loss of silver nanoparticles is reduced. The resultant filter may be used in an air treatment device.

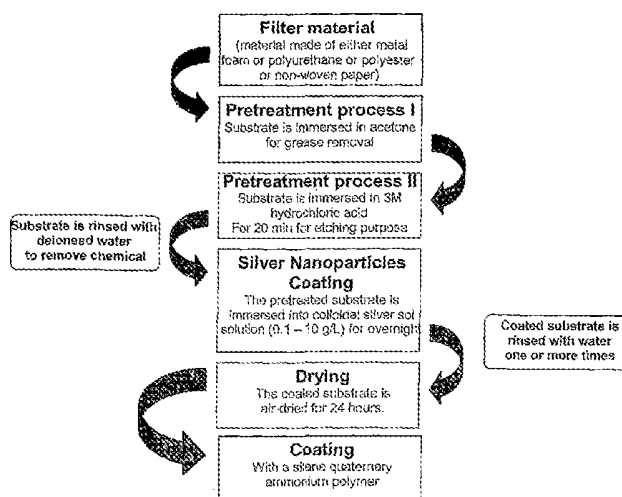


Figure 1