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(54) **COMPOSITE MEMBRANE SUPPORT AND COMPOSITE MEMBRANE USING THE SAME**

(75) Inventors: **Minoru Yoshida**, Tokyo (JP); **Ikuo Ueno**, Tokyo (JP); **Norihisa Matsuo**, Tokyo (JP); **Hirotoishi Ishizuka**, Kusatsu (JP); **Hiroki Fujioka**, Kusatsu (JP); **Mieko Nishi**, Kusatsu (JP)

(73) Assignees: **ASAHI KASEI FIBERS CORPORATION**, Osaka-Shi (JP); **NITTO DENKO CORPORATION**, Ibaraki-Shi (JP)

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See application file for complete search history.

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*Primary Examiner* — Dirk Bass

(74) *Attorney, Agent, or Firm* — Finnegan, Henderson, Farabow, Garrett & Dunner, L.L.P.

(57) **ABSTRACT**

An object of the present invention is to provide a composite membrane support composed of a dry process thermoplastic resin filaments nonwoven fabric having a significantly high uniformity to enable formation of a porous layer free from strike-through or a defect such as pinhole at the film formation, producing no skin layer defect at the formation of a skin layer, and being excellent in the mechanical strength and dimensional stability at high temperatures, and a high-performance composite membrane and a composite membrane element each using the composite membrane support. The composite membrane support of the present invention is a laminate dry process thermoplastic resin filaments nonwoven fabric comprising three or more layers containing at least a meltblown fiber layer as an interlayer and spunbond fiber layers on both sides of the interlayer, wherein the average value of air flow resistance is from 2.0 to 30.0 kPa-s/m and the ratio between the average value and the standard deviation of air flow resistance is 0.6 or less.

**11 Claims, 10 Drawing Sheets**

