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Tomiita et al.

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[54] **APPARATUS FOR PERFORMING WEATHER RESISTANCE TEST**

4,995,273 2/1991 Kisima et al. 73/865.6

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[57] ABSTRACT

[22] Filed: **Mar. 8, 1995**

Related U.S. Application Data

[63] Continuation of Ser. No. 173,929, Dec. 28, 1993, abandoned, which is a continuation of Ser. No. 534,576, Jun. 6, 1990, abandoned.

An apparatus for performing a weather resistance test on a composite material having a metallic, inorganic, or organic base member, and an organic material covering the base member. The apparatus includes a sample holding device disposed in a sample chamber for holding a sample of the composite material. An artificial light source irradiates light substantially in the ultraviolet light area to one surface of the sample. A dipping mechanism dips the sample in a corrosive ionized water, and dew condensation is formed through a temperature control device disposed in the sample holding device, working with a moisture source, for causing dew condensation in the surface of the sample. A cleaning device is provided for cleaning the surface of the sample, and steaming of the sample is performed through the use of a heating element disposed in the sample chamber, and the moistening means, for steaming the sample in an atmosphere of high temperature and high humidity. A control system controls the execution of the operation of the light source, the dipping mechanism, the dew condensation devices, the cleaning device, and the steaming devices, in a sequential manner.

[30] Foreign Application Priority Data

Jun. 15, 1989 [JP] Japan 1-150620

[51] **Int. Cl.⁶** **G01N 17/00**

[52] **U.S. Cl.** **422/53; 422/67; 436/6; 73/865.6**

[58] **Field of Search** **436/6; 422/53; 422/67; 73/150 R, 865.6**

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2 Claims, 13 Drawing Sheets

