

[54] **ULTRASONIC WAVE VIBRATION APPARATUS FOR USE IN PRODUCING PREFORM WIRE, SHEET OR TAPE FOR A FIBER REINFORCED METAL COMPOSITE**

[75] Inventors: Toshikatsu Ishikawa, Tokyo; Haruo Teranishi, Machida; Yoshikazu Imai, Tokyo; Yoichi Nagata, Yokohama, all of Japan

[73] Assignee: Agency of Industrial Science & Technology, Tokyo, Japan

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Primary Examiner—Evan K. Lawrence

Attorney, Agent, or Firm—Stevens, Davis, Miller & Mosher

[57] ABSTRACT

A preform wire for fiber reinforced metal composite consisting of a metal/silicon carbide fiber composite material is light in weight and excellent in strength and elasticity, and can be easily obtained by impregnating a silicon carbide fiber bundle with a molten metal which is kept vibrated by means of an ultrasonic wave vibration apparatus having a hole for cooling water or a cooling-water jacket located at the node of the half-wavelength of the ultrasonic wave created by the vibration apparatus.

4 Claims, 1 Drawing Sheet

