



US005359951A

United States Patent [19]
Meng

[11] **Patent Number:** **5,359,951**
[45] **Date of Patent:** **Nov. 1, 1994**

- [54] **ACTIVE TURBULENCE CONTROL USING MICROELECTRODES, PERMANENT MAGNETS IN MICROGROOVES**
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- [21] **Appl. No.:** 16,326
- [22] **Filed:** Feb. 11, 1993
- [51] **Int. Cl.⁵** B63B 1/34
- [52] **U.S. Cl.** 114/67 R
- [58] **Field of Search** 114/56, 61, 67 R, 289, 114/290; 440/6, 38; 244/130, 200, 204, 205

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[57] **ABSTRACT**
Electrodes and magnets are disposed in alternating relation on confronting surfaces of microgrooves that respectively produce electric and magnetic fields that are cooperative to provide a force that acts along a flow direction defined between a vessel and a relatively moving medium to controllably diminish turbulence generation in seawater.

5 Claims, 1 Drawing Sheet

