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United States Patent [19] Bilanin

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- [54] **SYSTEM FOR ALLEVIATING SCOURING AROUND SUBMERGED STRUCTURES**
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- [58] Field of Search **405/203-205, 405/211, 73, 74, 31, 30, 29, 16, 21**

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[57] **ABSTRACT**

A system for alleviating scouring damage at the base of a structure anchored in the bed of a body of liquid flowing at a velocity relative to the structure, such as a bridge pier in a river bed, comprises a plurality of hollow vehicle tires surrounding the structure in a matrix of plural stacks of tires connected together with their toroidal axes substantially aligned. Each stack comprises a predetermined number of tires so that the top surface of the matrix forms a predetermined angle relative to horizontal.

21 Claims, 10 Drawing Sheets

