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(12) **United States Patent**  
**Pierce, Jr.**

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(54) **WAVE SUPPRESSOR AND SEDIMENT COLLECTION SYSTEM FOR USE IN SHALLOW AND DEEPER WATER ENVIRONMENTS**

405/87; 137/512.1, 527.8; 210/162, 170.09, 210/170.1, 170.11

See application file for complete search history.

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(\* ) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

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**Related U.S. Application Data**

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(63) Continuation of application No. 14/192,519, filed on Feb. 27, 2014, now Pat. No. 8,985,896, and a continuation-in-part of application No. 13/554,202, filed on Jul. 20, 2012, now Pat. No. 9,157,204, which is a continuation-in-part of application No. 12/576,359, filed on Oct. 9, 2009, now Pat. No. 8,226,325.

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(57) **ABSTRACT**

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A transportable wave suppressor and sediment collection system for suppressing wave action along the shore of a body of water, which includes a plurality of interconnected sections, each section including a base, a forward wall, and a rear wall, and having a plurality of flow pipes extending from the forward wall to the rear wall, and further including a plurality of shelves on the forward wall for dispersing wave energy, while redirecting and using the wave energy to allow water and sediment to flow into the flow pipes and for collecting sediment that is not carried into the flow pipes and settles on the shelves for being contacted by a following wave to carry the sediment into the flow pipes. In some deeper water embodiments, the sections may include a base portion, a top portion and one more spacer portions to enable raising or changing the height of the system.

(52) **U.S. Cl.**  
CPC . *E02B 3/023* (2013.01); *E02B 3/04* (2013.01);  
*E02B 3/046* (2013.01); *E02B 3/06* (2013.01);  
*E02B 3/062* (2013.01); *E02B 3/18* (2013.01)

(58) **Field of Classification Search**  
USPC ..... 405/15, 21, 23, 25, 29, 30, 73, 74, 80,

**26 Claims, 34 Drawing Sheets**

