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(12) **United States Patent**
Veazey

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(54) **TRANSPORT AND USE OF PREFABRICATED COMPONENTS IN SHORELINE AND FLOATING STRUCTURES**

2,348,508 A * 5/1944 Wells 405/21
2,369,615 A 2/1945 Smith
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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.

(Continued)

FOREIGN PATENT DOCUMENTS

(21) Appl. No.: **11/906,058**

WO WO 90/08059 7/1990

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Related U.S. Application Data

OTHER PUBLICATIONS

(60) Division of application No. 11/370,074, filed on Mar. 6, 2006, now Pat. No. 7,373,892, which is a continuation-in-part of application No. 10/731,263, filed on Dec. 8, 2003, now Pat. No. 7,007,620, which is a continuation-in-part of application No. 10/314,099, filed on Dec. 7, 2002, now Pat. No. 6,659,686, which is a division of application No. 09/776,971, filed on Feb. 5, 2001, now Pat. No. 6,491,473.

B & W photocopy of floating drydock containing docked cruise ship.

(Continued)

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(51) **Int. Cl.**

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(52) **U.S. Cl.** **114/267; 405/15; 405/284**

(58) **Field of Classification Search** 405/15, 405/21, 23, 16, 17, 18, 19, 20, 284, 286; 114/264, 265, 266, 267, 121

See application file for complete search history.

(57) **ABSTRACT**

Novel prefabricated structural components such as precast concrete boxes having forms including rectangular parallelepipeds and hexagonal cylinders are disclosed which can be assembled together and/or with structural shapes disclosed in U.S. Pat. Nos. 5,697,736 and 6,491,473 to form waterfront structures such as seawalls, levees and breakwaters. Novel methods of waterborne transport and installation of the boxes and arrays thereof are disclosed, including modular vessels having bow and stern sections which can be connected directly together or mounted to a mid-section containing assemblies of such boxes, other structural elements or other vessels such as floating drydocks. Modular vessels can be assembled with any or all of the bow, midship and stern sections comprising honeycomb arrays of vertically-oriented hexagonal boxes.

(56) **References Cited**

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16 Claims, 73 Drawing Sheets

