US006982383B1

(12) **United States Patent**
Spellman et al.

(10) **Patent No.: US 6,982,383 B1**
(45) **Date of Patent: Jan. 3, 2006**

(54) **OUTER CASING STRUCTURE AND FABRICATION METHOD FOR CABLE SECTIONS AND NAVY BUOYANT ANTENNAS**

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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.

(21) Appl. No.: **10/631,221**

(22) Filed: **Jul. 30, 2003**

(51) **Int. Cl.**
H02G 15/02 (2006.01)

(52) **U.S. Cl.** ..... **174/74 R**; 174/80

(58) **Field of Classification Search** ..... 174/36, 174/110 R, 113 R, 120 R, 74 R, 75 R, 75 D, 174/75 C, 76, 77 R, 80, 84 R; 367/16, 17, 367/20, 18, 154, 191
See application file for complete search history.

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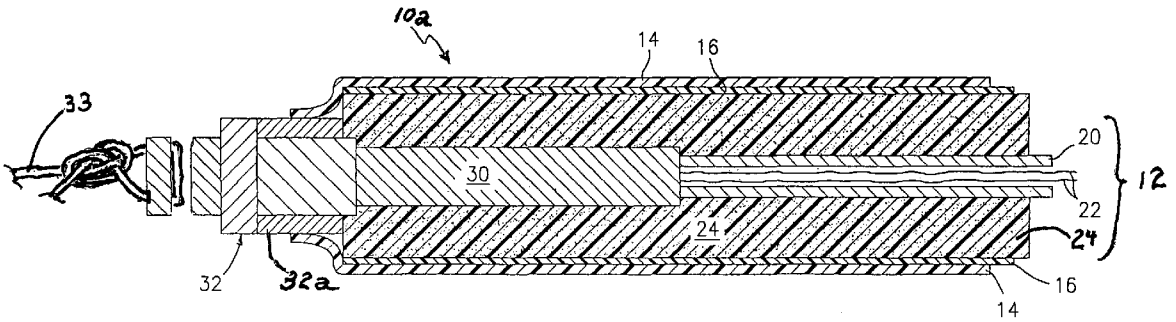
(57) **ABSTRACT**

The present invention relates to a cable section assembly for marine applications having a core structure, such as a buoyant cable antenna interim manufacturing step subassembly, and a protective casing formed from a heat shrinkable tubing which together with the interim subassembly forms a complete assembly. For buoyant cable assembly applications the interim subassembly is at least partially formed of polyurethane material having glass microballoons distributed therein, with such material in any event occupying an outer layer portion of the subassembly. The cable section assembly of the present invention is formed by providing a length of heat shrinkable flexible tubing, inflating or expanding the heat shrinkable tubing to its approximate full diameter, inserting the core structure into the length of tubing, and shrinking the tubing around the core structure.

4 Claims, 1 Drawing Sheet