from the first elevation position to the second elevation position. The system stores and releases energy when the at least one weight moves between the first elevation position and the second elevation position. The system is configured to locate and couple to a first weight of said at least one weight located at first coordinates on the floor of the body of water and a second weight of said at least one weight located at second coordinates on the floor of the body of water.

[0014] Additional features and advantages are realized through the techniques of the present invention. Other embodiments and aspects of the invention are described in detail herein and are considered a part of the claimed invention.

BRIEF DESCRIPTION OF THE SEVERAL VIEWS OF THE DRAWINGS

[0015] One or more aspects of the present invention are particularly pointed out and distinctly claimed as examples in the claims at the conclusion of the specification. The foregoing and other objects, features, and advantages of the invention are apparent from the following detailed description taken in conjunction with the accompanying drawings in which:

[0016] FIG. 1 is a block diagram of a system for storing and releasing energy, in accordance with one or more aspects of the present invention;

[0017] FIG. 2 depicts a system for storing and releasing energy deployed in a body of water, in accordance with one or more aspects of the present invention;

[0018] FIG. 3 depicts one embodiment of a platform of the system, in accordance with one or more aspects of the present invention;

[0019] FIG. 4 depicts other embodiments of platforms of the system, in accordance with one or more aspects of the present invention;

[0020] FIG. 5 depicts embodiments of hoist systems, in accordance with one or more aspects of the present invention;

[0021] FIG. 6 depicts embodiments of hoist systems, which may include winches, in accordance with one or more aspects of the present invention;

CLAIMS

What is claimed is:

1. A system for storing and releasing energy, wherein said system is deployed in a body of water, said system comprising:

a platform;

at least one weight stored on a floor of the body of water;

a hoist system, said hoist system capable of moving said at least one weight between a first elevation position and a second elevation position; and

a remotely operated attachment device coupled to said hoist system, said remotely operated attachment device configured to locate and couple to said at least one weight on the floor of the body of water, wherein said hoist system selectively raises and lowers said at least one weight when coupled to said remotely operated attachment device from the first elevation position to the second elevation position, wherein said system stores and releases energy when said at least one weight moves between the first elevation position and the second elevation position, and

wherein said system is configured to locate and couple to a first weight of said at least one weight located at first coordinates on the floor of the body of water and a second weight of said at least one weight located at second coordinates on the floor of the body of water.

2. The system of claim 1, wherein said platform is capable of moving over the body of water.

3. The system of claim 1, wherein said hoist system comprises:

a tension member having a length with a first end and a second end, said tension member capable of supporting said at least one weight when said at least one weight is coupled to said tension member for movement between the first elevation position and the second elevation position; and