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(54) Title: WAVE ENERGY CONVERTER

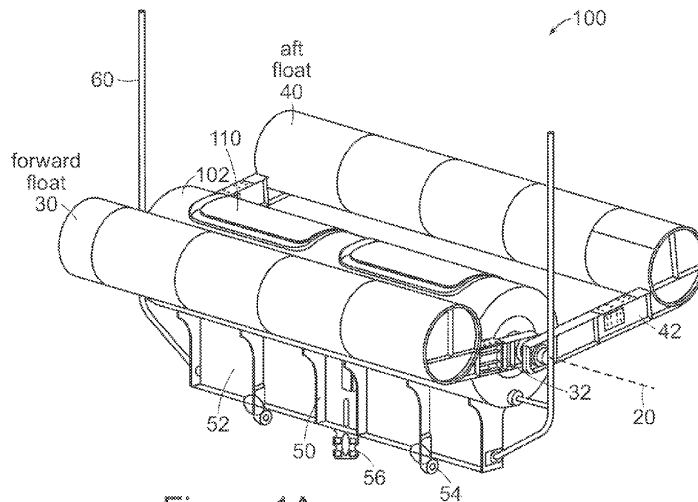


Figure 1A

(57) **Abstract:** A wave energy converter is provided which includes a central body including a nacelle, the nacelle housing at least one power take off. The wave energy converter also includes a first float and a first float arm coupled to the nacelle on a first side, and a second float and a second float arm coupled to the nacelle on a second side. The first float is rotatably coupled to the nacelle, the first float and the first float arm forming a first body configured to rotate, where the first body is operatively coupled to the at least one power take off such that relative motion between the first body and the central body generates energy in the at least one power take off. In one embodiment, the central body has a low reserve buoyancy, where the reserve buoyancy of the central body is lower than the reserve buoyancy of either of the first float and the second float, to minimize a heave response of the central body relative to the first float to increase output of the wave energy converter. In one embodiment, the central body includes a yoke extending downwardly

[Continued on next page]

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from the nacelle, a plurality of lines attached to the base of the yoke, and a heave plate attached to the lower terminus of each of the plurality of lines.