

Box III Text of the abstract

A surfing wave system comprising a wave pool defining a body of water having a water surface and a shoreline, a wave generating apparatus in the wave pool for generating concentric waves that radiate outwards in all directions, an array of main reefs in the wave pool having angled apex units; and an array of secondary reefs that are set back from the main reefs and spaced away from the shoreline in the wave pool, wherein the wave generating apparatus comprises a wave generating object and a drive mechanism for causing the wave generating object to oscillate at a natural frequency of the system along a path, with the wave generating object in contact with the body of water for at least some of the time, and the path including a component perpendicular to the water surface when the wave generating object is in contact with the body of water.