

Abstract

A reconfigurable mobile docking apparatus is provided, which comprises: a platform having at least a longitudinal side and a transverse side, and arranged to receive an asset; a plurality of supporting legs movably coupled to the platform and configurable to be lowered to the bottom of a body of water to anchor and/or support the apparatus, wherein the platform is operable cooperatively with the lowered supporting legs to be adaptively raised or lowered with reference to a water-level; and a reconfigurable modular tank system which includes a plurality of high buoyancy ballast tanks which are removably supported by the platform and relocatable at least between a first and a second position, wherein in the first position, asset transfer to or from the platform is permitted through the longitudinal side, and wherein in the second position, asset transfer to or from the platform is permitted through the transverse side. The tanks are further capable of being offloaded into water to provide a floating structure and/or increase lift capacity.

(Fig. 1A)