Subsea Force Generating Device and Method

ABSTRACT

Method and water submerged device for generating a force under water. The device includes a low pressure recipient (60) configured to contain a volume of a first fluid at a low pressure volume, an inlet (62d) connected to the low pressure recipient (60) and configured to exchange a second fluid with an external enclosure (36), and a valve (62) connected to the external enclosure (36) and the inlet (62d) and configured to separate a pressure source in the external enclosure (36) from the low pressure recipient. When the valve (62) is open, such that there is a flow communication between the external enclosure (36) and the low pressure recipient (60), a pressure imbalance occurs in the external enclosure (36), which generates the force and the second fluid from the external enclosure (36) enters the low pressure recipient (60) and compresses the first fluid.

[Fig. 4]