

Title (en)

A METHOD AND APPARATUS FOR HOLDING OR MOUNTING AN OBJECT

Title (de)

VERFAHREN ZUM HALTEN VON GEGENSTÄNDEN UND GERÄT DAFÜR

Title (fr)

PROCEDE ET APPAREIL PERMETTANT DE MAINTENIR OU DE MONTER UN OBJET

Publication

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Application

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Abstract (en)

[origin: WO2004050302A1] Disclosed herein is a holding device, which includes a volumetrically controllable material (10) and a volume controller in operable communication with that material. The volume controller is configured to subject the material to a condition that causes a physical change in volume of the material without a change in mass of the material (10). The volumetric change causes the holding power. Further disclosed herein is a method for creating a lower than atmospheric pressure between a volumetrically controllable fixed mass material and a separate object (30). The method includes introducing to the material (10) an increase condition calculated to volumetrically increase the material without changing the mass of the material. The separate object (30) is then brought to contact the material following which a decrease condition calculated to volumetrically decrease the material without changing the mass of the material is introduced to the material (10).

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