

Title (en)  
VERTICALLY ADJUSTABLE BEARING FOR THE TRANSFERRING AND RAISING AND/OR LOWERING OF HEAVY LOADS, PARTICULARLY OF BRIDGES

Publication  
**EP 0155622 A3 19861230 (DE)**

Application  
**EP 85102782 A 19850312**

Priority  
DE 3410275 A 19840321

Abstract (en)  
[origin: US4610431A] An adjustable load support for lifting, lowering, and transferring heavy loads is provided, comprising a hollow container having a bottom, side walls, and a liftable top. A portion of the top protrudes into the interior of the container. An elastomeric mass substantially fills the remainder of the interior of the container. Sealing elements are also provided which seal the portion of the top of the container extending into the interior of the container with the side walls. A substantially flat diaphragm is located between the elastomeric mass and the bottom of the container. The diaphragm is substantially parallel to the plane of the bottom of the container but is not in contact with the side walls of the container. Means for introducing a pressurized medium between the diaphragm and the elastomeric mass through an opening in the diaphragm is also provided. When the pressurized medium is introduced into the container between the diaphragm and the elastomeric mass, the top of the container is lifted. Conversely, when the pressurized medium is let out of the container, the top of the container is lowered.

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CPC (source: EP US)  
**E01D 19/048** (2013.01 - EP US); **E04B 1/36** (2013.01 - EP US)

Citation (search report)  
• [AD] DE 2527128 A1 19761223 - GUTEHOFFNUNGSHUETTE STERKRADE  
• [AD] GB 1194817 A 19700610 - GUTEHOFFNUNGSHUETTE STERKRADE [DE]  
• [A] EP 0088969 A1 19830921 - TOPALOFF BORIS DR ING  
• [A] FR 2118057 A1 19720728 - KILCHER BAUISOLATIONEN  
• [XP] BAUTECHNIK, Jahrgang 61, Nr. 7, 1984, Seiten 222-230, Verlag Wilhelm Ernst & Sohn, Berlin, DE; W. ANDRÄ et al.: "Der heutige Entwicklungsstand des Gummitopflagers und seine Weiterentwicklung zum Hublager"

Cited by  
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