

Title (en)  
HYDRAULIC APPARATUS PERMITTING THE DISCONNECTION OF A FLUID-TRANSFERRING ARTICULATED ARM, ESPECIALLY FOR AN URGENT DISCONNECTION

Publication  
**EP 0045697 B1 19850213 (FR)**

Application  
**EP 81401244 A 19810731**

Priority  
FR 8017184 A 19800804

Abstract (en)  
[origin: US4416306A] An articulated marine fluid loading arm comprising rigid, pivotally-interconnected inner and outer arm members with the inner arm member pivotally mounted on an upstanding riser for movement about horizontal and vertical axes, and a system for controlling the arm during emergency disconnection thereof from a tanker or other marine vessel. The system includes an auxiliary counterweight movably mounted on a support beam that is fixed to, and extends rearwardly from, the riser end of the inner arm member, and a hydromechanical system for automatically adjusting the position of the auxiliary counterweight between that wherein the loading arm is substantially balanced in an empty condition and that wherein the arm is substantially balanced in a fluid-filled condition.

IPC 1-7  
**B67D 5/06**

IPC 8 full level  
**B67D 9/02** (2010.01)

CPC (source: EP US)  
**B67D 9/02** (2013.01 - EP US); **Y10T 137/8807** (2015.04 - EP US)

Cited by  
FR2572786A1; FR2611687A1; CN111099552A

Designated contracting state (EPC)  
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DOCDB simple family (publication)  
**EP 0045697 A1 19820210; EP 0045697 B1 19850213**; DE 3168894 D1 19850328; FR 2487807 A1 19820205; FR 2487807 B1 19851115; SG 46185 G 19870327; US 4416306 A 19831122

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**EP 81401244 A 19810731**; DE 3168894 T 19810731; FR 8017184 A 19800804; SG 46185 A 19850615; US 28973981 A 19810803