

Title (en)

ARTICULATED ARM FOR TRANSFERRING FLUID PRODUCTS BALANCED WITH SPRINGS IN WIDE DISPLACEMENT

Title (de)

BEWEGLICHER LADEARM MIT AUSGLEICH DURCH FEDERN

Title (fr)

BRAS ARTICULE DE TRANSFERT DE PRODUITS FLUIDES A EQUILIBRAGE PAR RESSORT DANS UN GRAND DEBATTEMENT

Publication

EP 1218287 B1 20030813 (FR)

Application

EP 00949534 A 20000613

Priority

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Abstract (en)

[origin: US6416086B1] The invention proposes an articulated arm for transferring fluid products comprising two tubular sections (7, 8+2) connected to each other by a rotating joint (3) with a horizontal axis, and one of which, mobile in rotation, has an angular reference configuration in which it is balanced despite the effect of gravity. A balancing device (4, 10) compensates for variations in the effect of gravity on this mobile tubular section as a function of the orientation of this vis-a-vis the vertical, it is mounted between a fixed reference portion and a linkage portion of the mobile tubular section which is at a distance other than zero from the axis of rotation; it includes a spring (10) which tends to return the mobile section to its angular reference configuration (it is then idle) and applying to the mobile tubular section a force which is approximately proportional to the distance between this linkage portion and the location of this linkage portion in the angular reference configuration.

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