

Title (en)

Device for docking containers for the receipt of radioactive materials in a lock.

Title (de)

Andockeinrichtung für radioaktive Stoffe aufnehmende Behälter an einer Schleuse.

Title (fr)

Dispositif d'accouplement à un sas pour fûts contenant de la matière radioactive.

Publication

EP 0384143 A2 19900829 (DE)

Application

EP 90101384 A 19900124

Priority

DE 3905362 A 19890222

Abstract (en)

[origin: CA2010124A1] The invention is directed to a docking arrangement for docking a container to a lock having a first side facing into a first chamber wherein contamination is present and a second side facing into a second chamber free of contamination. A lock wall defines the lock opening and a lock cover is adapted to close the lock opening. The container is provided for receiving radioactive materials and has a container vessel which is closed by a container cover. The docking arrangement includes an intermediate cover releasably connectable to the container cover. A holder is provided for engaging the intermediate cover to move the intermediate cover together with the container cover for opening and closing the lock opening. The intermediate cover is disposed between the lock cover and the container cover. An annular member is located on the second side and form-fittingly engages the lock wall. The intermediate cover is subdivided into a first portion covering the container cover and a second portion covering the annular member with the second portion extending to the lock wall. A first set of seals seals the docking arrangement with respect to parts which should not be subjected to contamination. Another set of seals seals the cover with respect to the annular member. The docking arrangement makes possible a rapid and simple exchange for other docking arrangements for containers and their covers having different dimensions without any problems occurring with reference to contamination.

Abstract (de)

Die Andockeinrichtung weist einen an einem Greifer (7) und am Behälterdeckel (16) befestigbaren Deckel (14), ein in die Schleusenwand (1) eingreifendes Ringteil (9) und Verbindungsmittel (20) auf. Der Deckel (14) gliedert sich in einen den Behälterdeckel abdeckenden Bereich (14a) und einen das Ringteil (9) bedeckenden Bereich (14b), der sich bis zur Schleusenwand erstreckt. Die Andockeinrichtung ist gegenüber den sie begrenzenden Fremdteilen durch Dichtungen (11, 13, 15, 18) abdichtbar; gegenüber dem Ringteil (9) ist der Deckel (14) durch Dichtungen (13, 17) abdichtbar. Die Andockeinrichtung ermöglicht ein schnelles und einfaches Auswechseln gegen andere Andockeinrichtungen für Behälter und deren Deckel verschiedener Abmessungen, ohne jegliche Probleme bezüglich einer Kontamination.

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G21F 7/005

IPC 8 full level

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CPC (source: EP KR US)

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