

Title (en)

DEVICE FOR UNLOADING BULK MATERIALS FROM SHIP CARGO HOLDS

Title (de)

EINRICHTUNG ZUM ENTLADEN VON LOSGUT AUS DEN LADERÄUMEN VON SCHIFFEN

Title (fr)

DISPOSITIF DE DECHARGEMENT DE MATIERES EN VRAC TRANSPORTEES DANS LES CALES DE NAVIRES

Publication

**EP 0756573 A1 19970205 (DE)**

Application

**EP 96907336 A 19960301**

Priority

- DE 19507375 A 19950303
- EP 9600878 W 19960301

Abstract (en)

[origin: US5709517A] PCT No. PCT/EP96/00878 Sec. 371 Date Oct. 22, 1996 Sec. 102(e) Date Oct. 22, 1996 PCT Filed Mar. 1, 1996 PCT Pub. No. WO96/27545 PCT Pub. Date Sep. 12, 1996An apparatus for unloading bulk material from a ship adjacent a dock has a portal support movable longitudinally on the dock parallel to the ship and carrying a boom having an inner end pivoted about an inner axis on the support and an outer end positionable over the ship. A conveyor extends between the ends of the boom and a catch bin is provided on the outer end of the boom above the conveyor. An outrigger arm pivotal on the outer end of the boom about an outer axis has an outer end over which passes a cable from which is suspended a grab. A winch connected to the cable can raise the grab from a position in a hold of the ship to a position above the catch bin. The arm is then pivoted to position the grab above the catch bin and then material is dumped from the grab into the catch bin so that it can be conveyed to the dock by the boom conveyor.

IPC 1-7

**B65G 67/60**

IPC 8 full level

**B65G 67/60** (2006.01)

CPC (source: EP KR US)

**B65G 67/60** (2013.01 - KR); **B65G 67/606** (2013.01 - EP US)

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**US 73710696 A 19961022**; CN 96190139 A 19960301; DE 19507375 A 19950303; EP 9600878 W 19960301; EP 96907336 A 19960301; KR 19960706175 A 19961101; TW 85102570 A 19960302