

Title (en)  
DEVICE FOR TRANSPORTING A FREE-FLOWING BULK PRODUCT TO BE TRANSPORTED

Title (de)  
VORRICHTUNG ZUM FÖRDERN VON FLIESS- UND SCHÜTTFÄHIGEM FÖRDERGUT

Title (fr)  
DISPOSITIF POUR TRANSPORTER UN PRODUIT A ECOULEMENT LIBRE ET EN VRAC A TRANSPORTER

Publication  
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Application  
**EP 02745395 A 20020619**

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Abstract (en)  
[origin: WO03004875A1] The invention relates to a device for transporting a bulk product to be transported. Said device comprises at least one transport piston (24) which moves back and forth by means of hydraulic systems (26), a support tube (30) which axially guides the transport piston on its generated surface (42), a filling chamber (20) which is axially connected to the support tube in the direction of transport and which can be supplied with the product to be transported by means of a supply funnel (12), and a transport cylinder (32) which is axially arranged in the displacement path of the transport piston, and is connected to the filling chamber on the input side and to a discharge tube (14) on the output side. The transport piston enables the supply funnel to access the filling chamber, when said transport piston is in its final position - withdrawn into the support tube (30) - while when it advances, it penetrates the filling chamber, entraining the product to be transported, and enters the transport cylinder. According to the invention, the discharge tube comprises a free outlet (38) for the product to be transported, on the end thereof opposite the transport cylinder. During the transport operation, an air-tight plug is formed in the discharge tube, consisting of a compressed product to be transported, which can be formed by means of a progressive product to be transported and which can be withdrawn by means of its outlet.

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See references of WO 03004875A1

Cited by  
US7531081B2; US7473347B2; EP1487942B2

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