

Title (en)

Vessel for enabling a uniform gravity driven flow of particulate bulk material therethrough, and direct reduction reactor incorporating same

Title (de)

Gefäß zum Ermöglichen von gleichmäßigem Schwerkraftabfluss von Schüttgut und Direktreduktionsreaktor derselben enthaltend

Title (fr)

Cuve permettant l'écoulement uniforme par gravité de matières en vrac et réacteur à réduction directe le comportant

Publication

EP 1264784 A1 20021211 (EN)

Application

EP 01112862 A 20010531

Priority

EP 01112862 A 20010531

Abstract (en)

So as to provide a container that is inexpensive to manufacture and that promotes a uniform flow of particulate bulk materials therethrough, a vessel (10) is suggested comprising at least two wall segments (12, 14) having a generally downwardly converging wall defining a vertical axis for said vessel, a first upper segment (12) being vertically arranged above a second lower segment (14), each one of said wall segments having an upper edge and a lower edge, the perimeter of the upper edge of said second lower wall segment (14) being larger than the perimeter of the lower edge of said first upper wall segment (12); said lower edge of said first upper wall segment (12) and said upper edge of said second lower wall segment (14) being positioned proximate to each other and cooperating to provide an enlargement (34) of the cross-sectional area of the volume occupied by said particulate solid material; and the lower edge of said first upper segment (12) defining a plane forming an angle with respect to the vertical axis of the vessel. <IMAGE>

IPC 1-7

B65D 88/26; **B65D 88/28**

IPC 8 full level

B65D 88/26 (2006.01); **B65D 88/28** (2006.01)

CPC (source: EP)

B65D 88/28 (2013.01)

Citation (applicant)

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- US 6055781 A 20000502 - JOHANSON JERRY R [US]
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Citation (search report)

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- [A] US 6029838 A 20000229 - HANSEN CHRISTEN GROENVOLD [SE], et al
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Designated contracting state (EPC)

DE IT

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