

Title (en)

Apparatus and method for separating materials of different densities

Title (de)

Vorrichtung und Verfahren zum Trennen von Materialien unterschiedlicher Dichte

Title (fr)

Appareil et procédé permettant de séparer des matériaux de différentes densités

Publication

**EP 2842633 A1 20150304 (EN)**

Application

**EP 13181634 A 20130825**

Priority

EP 13181634 A 20130825

Abstract (en)

A device (204, 300, 600) for separating materials of different densities is provided. A cup body (304) has an internal cavity (302) configured to hold media. An inner wall (306) defines a central body region (308) having an upper and lower end. The upper end is wider than the lower end. An interior shoulder (318) circumscribes the upper end of the central body region (308). The interior shoulder defines a neck region (310) above the central body region (308) and a shoulder trap (320) below the neck region. The shoulder trap (320) circumscribes the upper end of the central body region (308) and is wider than the neck region (310). When the device is spun about a central axis, the media travels upward along the inner wall (306) toward the shoulder trap (320). Relatively more dense material in the media is collected in the shoulder trap, and relatively less dense material is expelled from the device through an opening (322) above the neck region (310). Further the invention provides an apparatus (200) for separating media and a method for separating media using the separating device.

IPC 8 full level

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CPC (source: EP)

**B04B 5/04** (2013.01); **B04B 7/04** (2013.01); **B04B 7/08** (2013.01)

Citation (search report)

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Designated contracting state (EPC)

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