

Title (en)

PROCESS AND APPARATUS FOR THE SEPARATION OF THE CATALYST USING A CYCLONE IN A FCC PROCESS

Title (de)

VERFAHREN UND VORRICHTUNG ZUR ABTRENNUNG EINES EINEN ZYKLON VERWENDENDEN KATALYSATORS IN EINEM FCC-VERFAHREN

Title (fr)

PROCEDE ET APPAREIL POUR SEPARER UN CATALYSEUR AU MOYEN D'UN CYCLONE DANS UN PROCESSUS DE CRAQUAGE CATALYTIQUE FLUIDE

Publication

**EP 1525048 A1 20050427 (EN)**

Application

**EP 02763426 A 20020808**

Priority

US 0225396 W 20020808

Abstract (en)

[origin: WO2004014538A1] An apparatus and process for the separation of solids from gases in a mixture improves separation efficiency by imparting a swirl motion to the mixture in a first angular direction to centripetally separate the heavier solids from the lighter gases in conduit and orienting the inlet of the cyclone such that trajectory of the mixture is away from the center of the cyclone. The desired trajectory may be gained by imparting a opposite swirling angular direction to the mixture in a separation vessel with respect to the cyclone or having the cyclone arranged tangentially with the vessel so that the cyclone and separation vessel share a common tangential sidewall. The apparatus and method incorporates a greater proportion of the mixture entering the cyclone into its vortex to further enhance separation between the solids and gases. Further separation efficiency is added by tangentially directing the mixture into the cyclone.

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**B01J 8/00**; **C10G 11/18**

IPC 8 full level

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CPC (source: EP)

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