

Title (en)  
CENTRIFUGAL SEPARATOR WITH SPECIAL SEPARATOR WHEEL

Title (de)  
FLIEHKRAFTSICHTER MIT SPEZIELLEM SICHTERRAD

Title (fr)  
SÉPARATEUR DE FORCE CENTRIFUGE DOTÉ D'UNE ROUE DE SÉPARATEUR SPÉCIALE

Publication  
**EP 3925709 B1 20231018 (DE)**

Application  
**EP 21190772 A 20191125**

Priority  
• DE 102018132155 A 20181213  
• EP 19211099 A 20191125

Abstract (en)  
[origin: US2020188959A1] A centrifugal separator including a separator housing and a separator wheel, which revolves in the separator housing, wherein the separator housing has at least one inlet for material to be separated, at least one coarse material outlet, as well as at least one first fine material outlet, wherein the separator wheel is formed by a separator drum and a separator wheel shaft, which supports the separator drum and preferably rotates around a horizontal axis, and the circumferential jacket surface of the separator drum is interrupted in such a way that it sets the material to be separated, which hits the separator drum on the outer jacket side, into rotation during operation and the separation air flows through it in the radially inwards direction, wherein the at least one fine material outlet is arranged on the end of the separator drum and fine material is discharged from the interior of the separator drum into the at least one fine material outlet via the free front face of the separator drum, wherein the separator wheel shaft consists of two parts, which are not directly connected to one another in a supporting manner, and the first part of the separator wheel shaft extends outwards from a wheel disk, which supports the separator drum in the area of its first front face, away from the separator drum, and the second part of the separator wheel shaft extends outwards from a wheel disk, which supports the separator drum in the area of its second front face, away from the separator drum.

IPC 8 full level  
**B07B 7/083** (2006.01); **B07B 11/06** (2006.01)

CPC (source: CN EP RU US)  
**B07B 7/08** (2013.01 - RU); **B07B 7/083** (2013.01 - CN EP US); **B07B 11/06** (2013.01 - EP)

Citation (opposition)  
Opponent : Omya International AG  
• EP 0747137 B1 19990915 - OMYA GMBH [DE]  
• EP 0534483 A2 19930331 - ENERGIE-TECHNIK AG GEMPA HAUS [LI]  
• DE 69302831 T2 19970123 - LUZENAC AMERICA INC [US]  
• DE 3826463 A1 19900208 - JAEGER HEINZ [DE]  
• DE 3814458 A1 19891109 - KRUPP POLYSIUS AG [DE]  
• DE 733378 C 19430325 - HERMANN HILDEBRANDT  
• EP 0818249 B1 20020206 - PMT JETMILL GMBH [AT]  
• DE 4429473 A1 19950223 - KEUSCHNIGG JOSEF [AT]  
• DE 102015220269 A1 20170420 - THYSSENKRUPP AG [DE], et al  
• DE 3508889 C1 19920220 - ALPINE AG  
• AT 394504 B 19920427 - SCHMIDT ERNST DIPL ING [ST]  
• GB 571222 A 19450813 - HENRY WITHERS KICKWEED JENNING

Designated contracting state (EPC)  
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