

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 3677348 B1 20230906 (DE)

Application
EP 19211099 A 20191125

Priority
DE 102018132155 A 20181213

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 1004366 A2 20000531 - HOSOKAWA ALPINE AG [DE]
• DE 3814458 A1 19891109 - KRUPP POLYSIUS AG [DE]
• RU 2392065 C1 20100620 - FEDERAL NOE G OBRAZOVATEL NOE [RU]
• DE 3826463 C2 19951026 - JAEGER HEINZ [DE]
• DE 3508889 C1 19920220 - ALPINE AG
• DE 4429473 A1 19950223 - KEUSCHNIGG JOSEF [AT]
• DE 102015220269 A1 20170420 - THYSENKRUPP AG [DE], et al
• EP 0818249 B1 20020206 - PMT JETMILL GMBH [AT]
• DE 69302831 T2 19970123 - LUZENAC AMERICA INC [US]
• EP 0244744 B1 19911009
• DE 19643042 A1 19980423 - HOSOKAWA ALPINE AG [DE]

Designated contracting state (EPC)
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DOCDB simple family (publication)
DE 102018132155 B3 20191212; BR 102019026628 A2 20200623; BR 102019026628 B1 20240305; CN 111318456 A 20200623; CN 111318456 B 20230324; DK 3925709 T3 20240122; EP 3677348 A2 20200708; EP 3677348 A3 20201021; EP 3677348 B1 20230906; EP 3925709 A1 20211222; EP 3925709 B1 20231018; ES 2964042 T3 20240403; ES 2966995 T3 20240425; FI 3925709 T3 20240111; HU E064873 T2 20240428; PL 3677348 T3 20240226; PL 3925709 T3 20240311; RU 2728628 C1 20200730; US 11278935 B2 20220322; US 11607709 B2 20230321; US 2020188959 A1 20200618; US 2021394237 A1 20211223

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DE 102018132155 A 20181213; BR 102019026628 A 20191213; CN 201911240971 A 20191206; DK 21190772 T 20191125; EP 19211099 A 20191125; EP 21190772 A 20191125; ES 19211099 T 20191125; ES 21190772 T 20191125; FI 21190772 T 20191125; HU E21190772 A 20191125; PL 19211099 T 20191125; PL 21190772 T 20191125; RU 2019136915 A 20191118; US 201916712220 A 20191212; US 202117447098 A 20210908