

Title (en)

Vortex finder for a centrifugal separator (cyclone)

Title (de)

Tauchrohr für einen Fliehkraftabscheider (Zyklon)

Title (fr)

Capteur de tourbillon pour un séparateur centrifuge (cyclone)

Publication

EP 0596377 B1 19970305 (DE)

Application

EP 93117287 A 19931026

Priority

DE 4236895 A 19921031

Abstract (en)

[origin: US5441081A] An immersion tube for a cyclone has a plurality of rings stacked atop one another and connected to one another. Each ring is comprised of a plurality of plate-shaped segments. The plate-shaped segments of one ring are suspended under the force of gravity from the plate-shaped segments of another ring positioned above said one ring for connecting the segments of each ring to one another. Each segment has contact surfaces for connecting each segment of the one ring to the segments of the other ring positioned above said one ring, wherein the contact surfaces comprise first inclined planes facing outwardly with respect to the immersion tube. Preferably, the contact surfaces comprise also second inclined planes facing inwardly with respect to the immersion tube.

IPC 1-7

B04C 5/13

IPC 8 full level

B04C 5/12 (2006.01); **B04C 5/085** (2006.01); **B04C 5/103** (2006.01); **B04C 5/107** (2006.01); **B04C 5/13** (2006.01)

CPC (source: EP US)

B04C 5/085 (2013.01 - EP US); **B04C 5/13** (2013.01 - EP US)

Citation (examination)

- DE 3644339 A1 19880714 - KRUPP POLYSIUS AG [DE]
- US 1666284 A 19280417 - GILCHRIST WILLIAM A
- DE 2164503 A1 19730705 - NEWELL TONY FREDERICK
- US 716865 A 19021230 - CHOQUET HENRI [FR], et al

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CN111672642A

Designated contracting state (EPC)

AT BE CH DE DK ES FR GB IT LI NL PT SE

DOCDB simple family (publication)

US 5441081 A 19950815; AT E149383 T1 19970315; CZ 229893 A3 19940518; CZ 285467 B6 19990811; DE 4236895 A1 19940505; DE 59305596 D1 19970410; DK 0596377 T3 19970908; EP 0596377 A1 19940511; EP 0596377 B1 19970305; ES 2099882 T3 19970601; FI 934527 A0 19931013; FI 934527 A 19940501; JP H06198220 A 19940719; SK 119593 A3 19940907; SK 280099 B6 19990806

DOCDB simple family (application)

US 14477293 A 19931029; AT 93117287 T 19931026; CZ 229893 A 19931029; DE 4236895 A 19921031; DE 59305596 T 19931026; DK 93117287 T 19931026; EP 93117287 A 19931026; ES 93117287 T 19931026; FI 934527 A 19931013; JP 29234093 A 19931019; SK 119593 A 19931027