

Title (en)  
NONCIRCULAR REJECTS OUTLET FOR CYCLONE SEPARATOR

Publication  
**EP 0080036 A3 19850522 (EN)**

Application  
**EP 82108633 A 19820918**

Priority  
US 32283181 A 19811119

Abstract (en)  
[origin: EP0080036A2] The use of rejects outlets (16, 17) in vortex separators having internal walls which gradually transform a circular cross-section into openings which are noncircular in cross-section has been found to be effective in controlling the rejects rate and the thickening factor of the separators while maintaining effective cleaning efficiencies without plugging problems. The rejects outlets (16, 17) may be fabricated as replaceable tips or may be integrally formed with the cyclone bodies.

IPC 1-7  
**B04C 5/14**

IPC 8 full level  
**B04C 5/14** (2006.01); **D21D 5/24** (2006.01)

CPC (source: EP)  
**B04C 5/14** (2013.01); **D21D 5/24** (2013.01)

Citation (search report)

- US 4163726 A 19790807 - HUGHART ROBERT P [US], et al
- DE 2942099 A1 19810430 - SCHAUENBURG MASCH [DE]
- FR 341369 A 19040806 - THOMAS EDWARD WILSON CLYMA [FR]
- SU 709181 A1 19800115 - KIRGIZ SELSKOKHOZ I [SU]
- US 4203834 A 19800520 - MARTIN DAVID L [US]
- GB 2056325 A 19810318 - ENSO GUTZEIT OY
- US 479231 A 18920719
- US 3971718 A 19760727 - REID CHARLES M
- US 441140 A 18901125

Cited by  
CN114985127A

Designated contracting state (EPC)  
DE FR GB SE

DOCDB simple family (publication)  
**EP 0080036 A2 19830601; EP 0080036 A3 19850522**; BR 8206317 A 19830920; CA 1203779 A 19860429; ES 517475 A0 19831101; ES 8400256 A1 19831101; FI 69410 B 19851031; FI 69410 C 19860210; FI 823961 A0 19821118; FI 823961 L 19830520; JP H0322220 B2 19910326; JP S5889958 A 19830528

DOCDB simple family (application)  
**EP 82108633 A 19820918**; BR 8206317 A 19821029; CA 409983 A 19820824; ES 517475 A 19821118; FI 823961 A 19821118; JP 18266982 A 19821018