

Title (en)
METHOD AND APPARATUS FOR CLEANING METALLIC FINES

Publication
EP 0093264 A3 19840711 (EN)

Application
EP 83103031 A 19830326

Priority
US 37347382 A 19820430

Abstract (en)
[origin: EP0093264A2] A continuous method for cleaning metallic particles such as fines, chips and the like, includes continuously introducing the dirty metallic particles into a flow path in sufficient quantity to form a bed of the particles. The bed is moved along the flow path toward a discharge point while continuously agitating the bed of particles. A gravity flow of a detergent solution is provided along the flow path to flow through the bed of particles contra to their movement. The solution is drained from the path at a point beyond the point at which the particles are introduced so as to carry dirt away from the bed. The apparatus for performing the method includes a rotatable hollow drum (14) having the lowest portion of its second end elevated with respect to the lowest portion of its first end. The particles are continuously introduced to the interior of the drum (14) at a point intermediate the ends thereof. A helical worm (42, 44) mounted to the drum interior extending from the first to second end cooperates with rotation of the drum (14) to transport the particles to the second end of the drum (14). The detergent solution is introduced into the drum interior to flow over and through the particles, and is drained from the drum (14) near the first end thereof. Following draining from the drum (14), the solution is continuously passed through a separating device (88) for separating oil and dirt from the solution.

IPC 1-7
B08B 3/08

IPC 8 full level
C23G 3/00 (2006.01); **B08B 3/04** (2006.01); **B08B 3/06** (2006.01); **C23G 1/00** (2006.01)

CPC (source: EP)
B08B 3/042 (2013.01)

Citation (search report)
• [X] GB 584744 A 19470122 - CURRAN BROTHERS LTD, et al
• [X] US 4073301 A 19780214 - MACKINNON ROBERT IAN

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US5174315A; CN114160480A; CN103386412A; CN108126956A; EP0308382A1; EP0557672A1; CN117644058A; WO8503661A1

Designated contracting state (EPC)
DE FR GB

DOCDB simple family (publication)
EP 0093264 A2 19831109; EP 0093264 A3 19840711; JP S58204184 A 19831128

DOCDB simple family (application)
EP 83103031 A 19830326; JP 7735483 A 19830430