

Title (en)

A centrifugal solids-liquids separator.

Title (de)

Flüssig-Fest-Zentrifugalseparator.

Title (fr)

Séparateur centrifuge solides-liquides.

Publication

EP 0258012 A2 19880302 (EN)

Application

EP 87307415 A 19870821

Priority

GB 8620436 A 19860822

Abstract (en)

A centrifugal solids-liquids separator comprises an outer drum (46) having a cylindrical part (47) and a conically tapered part (49) joined thereto at the wider end and housing a conveyor (45) likewise comprising a cylindrical part (44) of approximately the same axial length as the cylindrical part (47) of the centrifugal drum (46) and a conically tapered part (45) matching the conically tapered part (49) of the centrifuge drum (46). The conveyor (45) has radially extending deflector blades (53) either in the form of separate elements or as a continuous scroll and both conveyor and centrifuge drum are supported in bearings (38,39) at the end through which a solids-liquids mixture is introduced so that both the solid and liquid components flow in co-current at least over the cylindrical part of the interspace (61) between the circularly cylindrical parts of the conveyor (45) and drum (46) respectively.

IPC 1-7

B04B 1/20

IPC 8 full level

B04B 1/20 (2006.01)

CPC (source: EP)

B04B 1/20 (2013.01)

Cited by

JP2015131275A; ES2238110A1; US6004255A; DE4201427A1; EP0348213A3; US6908423B2; CN107971148A; WO2015107989A1; WO9723295A1

Designated contracting state (EPC)

AT BE CH DE ES FR GB GR IT LI LU NL SE

DOCDB simple family (publication)

EP 0258012 A2 19880302; EP 0258012 A3 19890816; GB 8620436 D0 19861001

DOCDB simple family (application)

EP 87307415 A 19870821; GB 8620436 A 19860822