

12

EUROPEAN PATENT APPLICATION

21 Application number: **87307415.7**

51 Int. Cl.4: **B04B 1/20**

22 Date of filing: **21.08.87**

30 Priority: **22.08.86 GB 8620436**

43 Date of publication of application:
02.03.88 Bulletin 88/09

84 Designated Contracting States:
AT BE CH DE ES FR GB GR IT LI LU NL SE

88 Date of deferred publication of the search report:
16.08.89 Bulletin 89/33

71 Applicant: **Mozley, Richard Henry**
8 Wood Lane Falmouth
Cornwall TR11 4RF(GB)

72 Inventor: **Mozley, Richard Henry**
8 Wood Lane Falmouth
Cornwall TR11 4RF(GB)

74 Representative: **Bryer, Kenneth Robert**
Hepworth Lawrence & Bryer 1 Strangways
Villas
GB-Truro, Cornwall TR1 2PA(GB)

54 **A centrifugal solids-liquids separator.**

57 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.

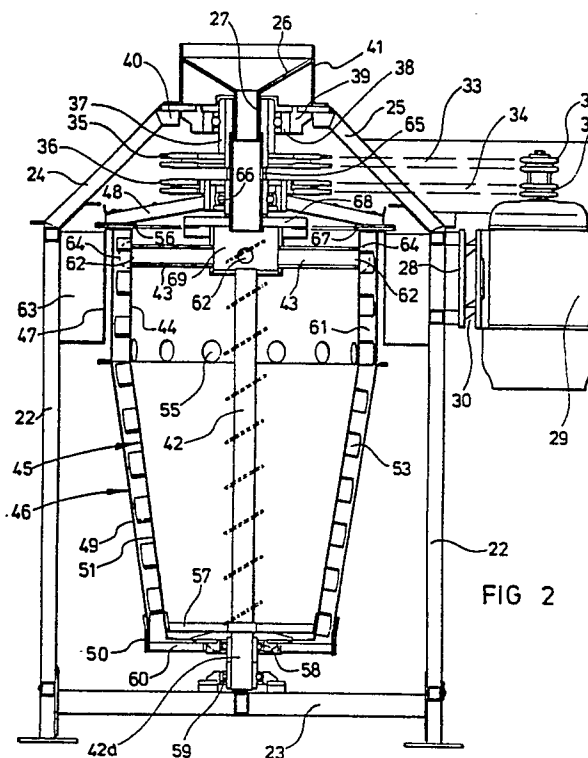


FIG 2



EP 87 30 7415

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl. 4)
X A	FR-A- 958 825 (AB SVENSKA KULLAGERFABRIKEN) * Page 1, lines 15-60; page 2, lines 1-21 *	1-4, 9, 12, 13, 15, 16, 18, 19 6, 17, 20 , 21	B 04 B 1/20
X A	FR-A-1 443 852 (CONSTRUCTIONS GUINARD) * Pages 1, 2; figure 1 *	1, 3, 6, 9 , 16, 18- 20 14, 17, 21	
A	US-A-3 814 246 (WILSON) * Column 10, lines 35-52 *	10	
			TECHNICAL FIELDS SEARCHED (Int. Cl. 4)
			B 04 B
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 19-05-1989	Examiner VERDONCK J.C.M.J.
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			