(19) Europäisches Patentamt
European Patent Office
Office européen des brevets

(11) EP 1 408 157 A3

(12) EUROPEAN PATENT APPLICATION

(88) Date of publication A3:
05.01.2005 Bulletin 2005/01

(43) Date of publication A2:
14.04.2004 Bulletin 2004/16

(21) Application number: **03023201.1**

(22) Date of filing: **13.10.2003**

(51) Int Cl.[7]: **E01C 19/10**

(84) Designated Contracting States:
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR
Designated Extension States:
AL LT LV MK

(30) Priority: **11.10.2002 SE 0203057**

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(54) Method and device for producing asphalt mix

(57) The invention relates to a method for producing an asphalt mix that includes a coarse fraction, a fine fraction, filler and bituminous binder with the following steps in the mentioned order:

a) mixing the coarse fraction and the liquid binder in a mixer (10) and
b) discharging the filler with a controlled flow rate to powder the binder liquid which is distributed over the surface of the coarse fraction with the filler and
c) spreading the fine fraction over the layer of filler,

wherein the discharge of the filler and the fine fraction is controlled in such a way that the filler and the fine fraction becomes enclosed in a combined suspension where the filler, the fine fraction and the coarse fraction are parts of a closed liquid volume. For improving the mixing method in such way that the time intervals and flow rates can be easier optimised to develop the closed liquid volume and that the production of an asphalt mix with still further reduced tendency to crack is producible, the invention proposes that the filler and/or the fine fraction is discharged into a downwardly directed material flow in the mixer (10). Further, a device for carrying out said method is described.

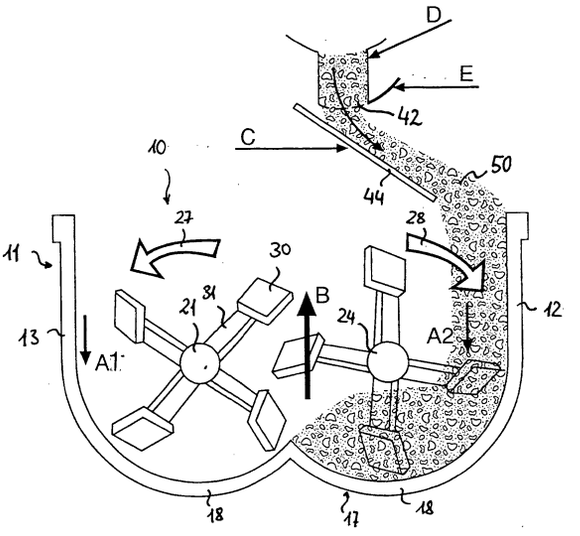

Fig. 2

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EUROPEAN SEARCH REPORT

Application Number
EP 03 02 3201

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.7)
D,Y	EP 0 756 615 B (OHLSON KARL GUNNAR) 5 February 1997 (1997-02-05) * the whole document *	1,2,5-7	E01C19/10
Y	DE 579 958 C (RECH S ET DE PERFECTIONNEMENTS) 4 July 1933 (1933-07-04) * the whole document *	1,2,5-7	
D,A	WO 83/00700 A (OHLSON KARL GUNNAR) 3 March 1983 (1983-03-03) * the whole document *	1-3	

TECHNICAL FIELDS SEARCHED (Int.Cl.7)

E01C
B01F

The present search report has been drawn up for all claims

Place of search	Date of completion of the search	Examiner
The Hague	12 November 2004	Dijkstra, G

CATEGORY OF CITED DOCUMENTS

X : particularly relevant if taken alone
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EPO FORM 1503 03.82 (P04C01)

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This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on
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12-11-2004

Patent document cited in search report		Publication date	Patent family member(s)		Publication date
EP 0756615	B	05-02-1997	SE	506581 C2	12-01-1998
			DE	69520207 D1	05-04-2001
			DE	69520207 T2	13-06-2001
			DK	756615 T3	30-04-2001
			EP	0756615 A1	05-02-1997
			NO	964353 A	21-10-1996
			SE	9401382 A	20-10-1995
			WO	9528457 A1	26-10-1995
DE 579958	C	04-07-1933	NONE		
WO 8300700	A	03-03-1983	AT	14904 T	15-08-1985
			AU	8768982 A	08-03-1983
			DE	3265423 D1	19-09-1985
			DK	171083 A ,B,	19-04-1983
			EP	0073181 A2	02-03-1983
			JP	58501331 T	11-08-1983
			NO	831423 A ,B,	22-04-1983
			WO	8300700 A1	03-03-1983
			US	4579458 A	01-04-1986

EPO FORM P0459

For more details about this annex : see Official Journal of the European Patent Office, No. 12/82