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EUROPEAN PATENT APPLICATION

②① Application number: **83401307.0**

②② Date of filing: **23.06.83**

⑤① Int. Cl.4: **C 13 D 3/14, C 13 D 3/12,**
C 13 K 11/00, B 01 D 15/00

③① Priority: **28.06.82 US 393211**
15.11.82 US 441458

④③ Date of publication of application: **07.03.84**
Bulletin 84/10

⑧④ Designated Contracting States: **AT BE CH DE FR GB IT LI**
NL SE

⑧⑧ Date of deferred publication of search
report: **12.11.86 Bulletin 86/46**

⑦① Applicant: **CALGON CARBON CORPORATION,**
Route 60 Campbell's Run Road, Robinson Township
Pennsylvania 15205 (US)

⑦② Inventor: **Rosene, Michael R., 3212 Evergreen Road,**
Pittsburgh Pennsylvania 15237 (US)

⑦④ Representative: **Warcoln, Jacques et al, Cabinet**
Régimbeau 26, avenue Kléber, F-75116 Paris (FR)

⑤④ **Sweetener solution purification process.**

⑤⑦ An improved process for purifying sweetener solutions is described. This process features passing crude sweetener solution through a series of adsorption materials, preferably arranged in the following order; cation exchange resin, microporous adsorbent, anion exchange resin.

EP 0 102 256 A3



European Patent
Office

EUROPEAN SEARCH REPORT

0102256

Application number

EP 83 40 1307

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. 3)
A	<p><u>US-A- 2 911 329</u> (BLANN)</p> <p>* Claim; column 4, lines 1-19, 49-59, line 69 - column 5, line 23 *</p> <p>---</p>	1,2,6,7	<p>C 13 D 3/14</p> <p>C 13 D 3/12</p> <p>B 01 D 15/00</p>
A	<p><u>GB-A- 2 022 135</u> (ECODYNE)</p> <p>* Claims 1-18 *</p> <p>---</p>	1-9	
A	<p><u>GB-A- 1 066 231</u> (UNION TANK CAR)</p> <p>* Claim 1; page 1, lines 53-65 *</p> <p>---</p>	1,3,4	
A	<p><u>FR-A- 949 323</u> (DORR)</p> <p>* Abstract, points 1,2b *</p> <p>---</p>	1-9	
A	<p><u>US-A- 2 415 539</u> (NELSON)</p> <p>* Claim 1; column 5, lines 31-35; examples III,IV *</p> <p>---</p>	10	<p>TECHNICAL FIELDS SEARCHED (Int. Cl. 3)</p> <p>C 13 D</p>
A	<p><u>US-A- 2 526 111</u> (BARTZ)</p> <p>* Claim 22; column 4, lines 18-20; column 6, lines 37-43; column 7, lines 36-41 *</p> <p>---</p>	10	
A	<p><u>BE-A- 439 426</u> (ACTIVIT)</p> <p>* Claims 1-14, page 4, paragraph 3; page 5, paragraph 3 *</p> <p>-----</p>	10	
The present search report has been drawn up for all claims			
Place of search		Date of completion of the search	Examiner
The Hague		04-08-1986	VAN MOER
<p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone</p> <p>Y : particularly relevant if combined with another document of the same category</p> <p>A : technological background</p> <p>O : non-written disclosure</p> <p>P : intermediate document</p> <p>T : theory or principle underlying the invention</p> <p>E : earlier patent document, but published on, or after the filing date</p> <p>D : document cited in the application</p> <p>L : document cited for other reasons</p> <p>& : member of the same patent family, corresponding document</p>			



CLAIMS INCURRING FEES

The present European patent application comprised at the time of filing more than ten claims.

- ☐ All claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for all claims.
- ☐ Only part of the claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims and for those claims for which claims fees have been paid, namely claims:
- ☐ No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims.

X LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirement of unity of invention and relates to several inventions or groups of inventions,

namely:

- 1) Claims 1-9: Purifying a sweetener solution by passing through three beds: cation exchange resin, microporous adsorbent and anion exchange resin or mixed bed in that order
- 2) Claim 10: Purifying the solution by adjusting the pH by addition of acid and subsequently passing it through a microporous adsorbent only

- ☒ All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.
- ☐ Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:
- ☐ None of the further search fees has been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims, namely claims: