



SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application number:
EP 17 79 34 27

Classification of the application (IPC):
C10B 39/10, C10B 27/06, F27B 7/08

Technical fields searched (IPC):
F27D, F27B, C10B

DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim
Y A	WO 2009035187 A1 (LEE DONG-WAN [KR]) 19 March 2009 (2009-03-19) * paragraphs [0022] - [0031], [0039], [0046] * * abstract; claims; figures 1,2,4,6 *	4, 6, 7 1
X Y	US 4014643 A (MUSHA KEIJIRO ET AL) 29 March 1977 (1977-03-29) * abstract; claims; figures 1-3 * * column 3, lines 4-64 *	1-3, 8, 9 4-7
X	WO 2011034409 A1 (INTEC GROUP SIA [LV]; MEROLA RAFFAELE [IT]) 24 March 2011 (2011-03-24) * page 7; figure 1 * * page 4, line 5 - page 6, line 8 *	1-4, 6-9
Y	FR 2221988 A6 (FIVES LILLE CAIL [FR]) 11 October 1974 (1974-10-11) * claim 1; figure 1 *	5

The supplementary search report has been based on the last set of claims valid and available at the start of the search.

Place of search The Hague	Date of completion of the search 28 October 2019	Examiner Bertin, Séverine
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CATEGORY OF CITED DOCUMENTS

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| X: particularly relevant if taken alone | P: intermediate document |
| Y: particularly relevant if combined with another document of the same category | T: theory or principle underlying the invention |
| A: technological background | E: earlier patent document, but published on, or after the filing date |
| O: non-written disclosure | D: document cited in the application |
| &: member of the same patent family, corresponding document | L: document cited for other reasons |

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LACK OF UNITY OF INVENTION

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

1. claims: 1-9

A rotating drum device for use with a carbonizer system comprising internal angled vanes disposed along the inner wall of said drum and an external rotating drum drive motor in fluid communication with said drum.

2. claims: 10, 11

A rotating drum device for use with a carbonizer system comprising inlet and outlet housing, an augered feed line connected to a central feed line, an external rotating drum drive motor in fluid communication with said drum and a heating jacket surrounding the outer wall of the drum.

3. claims: 12-15

A rotating drum device and process of carbonisation using it in a carbonizer system comprising inlet and outlet housing, an augered feed line connected to a central feed line, an external rotating drum drive motor in fluid communication with said drum and a plurality of external threads disposed along the circumference of the drum adapted to engage with the motor and drive the rotation of the drum.

Only part of the further search fees have been paid within the fixed time limit. The present (supplementary) 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: 1-9

The supplementary search report has been based on the last set of claims valid and available at the start of the search.

Place of search The Hague	Date of completion of the search 28 October 2019	Examiner Bertin, Séverine
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ANNEX TO SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application number:
EP 17 79 34 27

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 28-10-2019
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent document cited in search report		Publication date	Patent family member(s)		Publication date
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US 4014643	A	29-03-1977	DE	2531589 A1	05-02-1976
			JP	S5110464 A	27-01-1976
			JP	S5811553 B2	03-03-1983
			US	4014643 A	29-03-1977
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			LV	14040 B	20-12-2009
			WO	2011034409 A1	24-03-2011
FR 2221988	A6	11-10-1974	NONE		