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(54) Title: PROCESS FOR PRODUCING SULPHUR DIOXIDE, A THERMOCHEMICAL SYSTEM COMPRISING THE PROCESS AND ITS RELATED APPARATUSES, USE OF CARBON-BASED COMPOUNDS TO FEED A PROCESS FOR PRODUCING SULPHUR DIOXIDE AND ITS RELATED SYSTEM

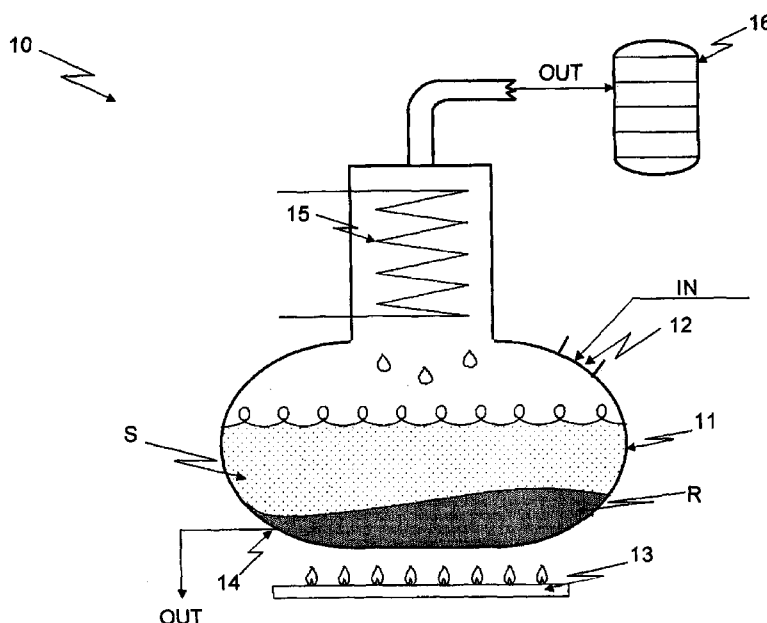


Figure 1

(57) Abstract: The invention relates to a thermochemical process for producing sulphur dioxide, a thermochemical system comprising the thermochemical process and apparatuses for the implementation of the process and of the thermochemical system, as well as the use of carbon-based compounds in order to feed a thermochemical process for producing sulphur dioxide and its related system. The process comprises the steps for the collection of concentrated sulphuric acid (S) inside a thermochemical reactor (11) of a thermochemical apparatus for producing sulphur dioxide (10), for the heating of the concentrated sulphuric acid (S) until it boils. The peculiarity of the process is that of adding carbon-based compounds in the thermochemical reactor (11).

INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

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ADD.

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

C01B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, CHEM ABS Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4 440 733 A (LAWSON DANIEL D [US] ET AL) 3 April 1984 (1984-04-03) the whole document	1-26
X	FR 869 792 A (BAMAG MEGUIN AG) 16 February 1942 (1942-02-16) page 1, line 34 - page 2, line 73	1-26
X	DE 197 23 194 A1 (BAYER AG [DE] KERR MCGEE PIGMENTS GMBH & CO [DE]) 26 March 1998 (1998-03-26) the whole document	1,4-7
X	CHEMICAL ABSTRACTS, 1991, XP000187542 ISSN: 0009-2258 * abstract	1

☐ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

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INTERNATIONAL SEARCH REPORT

Information on patent family members

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 4440733	A	03-04-1984	NONE	
FR 869792	A	16-02-1942	IT 387680 A	
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