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(51) INT CL:

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(56) Documents Cited:

EP 1752419 A JP 060333404 A RU 002139901 C JP 100005323 A JP 050225807 A US 20040253167 A

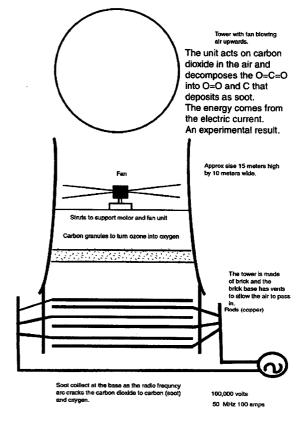
Abstract GTP.092

(58) Field of Search:

UK CL (Edition X) C1A

INT CL A61L, B01D, B01J, C01B Other: WPI EPODOC STN GOOGLE

- (54) Abstract Title: A device for converting carbon dioxide into oxygen and carbon
- (57) A device comprising an array of copper electrodes for generating an RF field through which a stream of carbon dioxide can be passed, where the interaction between the RF field and the carbon dioxide results in the formation of solid carbon and oxygen.



Soot coillect at the base as the radio frequincy are cracks the carbon dioxide to carbon (soot) and oxygen.

100,000 volts 50 MHz 100 amps

Description:

An array of copper rods excited by high voltage radio frequency current, this is placed at the bottom of a tower vented at the bottom with an extractor fan pulling the air though the array of rods.

The radio frequency excitation forms a radio frequency arc between the rods where the reaction takes place.

The exact values of the high voltage and frequency must be found by experiment but my guess is a potential of 100,000 volt, 50 megahertz.

The power can come from a proton fusion (Stellerator) running at that frequency.

Claim

The device splits the carbon dioxide molecule to carbon and oxygen.



Application No:

GB0711529.8

Examiner:

Nicholas Mole

Claims searched:

Date of search:

21 August 2007

Patents Act 1977: Search Report under Section 17

Documents considered to be relevant:

1

ealegory	Relevant to claims	
X	1	Abstract GTP.092
		http://flux.aps.org/meetings/YR02/GEC02/baps/abs/S90.html
X	1	US 2004/0253167 A
		(SILVA) see esp. paragraphs 80 and 81
X	1	RU 2139901 C
		(KIRILLOV) see WPI abstract no. 2000-474043
x	1	JP 05225807 A
		(YOSHIDA) see WPI abstract no. 1993-314765
X	1	JP 06333404 A
		(YOSHIDA) see WPI abstract no. 1995-055152
X	1	JP 10005323 A
		(YOSHIDA) see WPI abstract no. 1998-124092
X	1	EP 1752419 A
		(TOYO) see para 18

Categories:

<u> </u>	<u>togottes.</u>		
X	Document indicating lack of novelty or inventive step		
1		Α	Document indicating technological background and/or state of the art.
Y	Document indicating lack of inventive step if	_	of the art.
1	with one of more other documents as	P	Document published on or after the declared priority date but
	ouric cutchol v.		before the filing date of this invention.
	Member of the same patent family	E	Patent document published
			Patent document published on or after, but with priority date earlier than, the filing date of this application.
Fic	old of Sound		date of this application.

Field of Search:

Search of GB, EP, WO & US patent documents classified in the following areas of the UKCX:

Worldwide search of patent documents classified in the following areas of the IPC

A61L; B01D; B01J; C01B

The following online and other databases have been used in the preparation of this search report





WPI EPODOC STN GOOGLE

International Classification:

Subclass	Subgroup	
C01B		Valid From
	0013/02	01/01/2006
B01D	0053/62	
C01B	0031/02	01/01/2006
		01/01/2006