Europäisches Patentamt European Patent Office Office européen des brevets

(11) **EP 1 087 058 A3**

(12)

EUROPEAN PATENT APPLICATION

(88) Date of publication A3: **06.03.2002 Bulletin 2002/10**

(51) Int Cl.⁷: **D21H 27/16**

(43) Date of publication A2: **28.03.2001 Bulletin 2001/13**

(21) Application number: 00308258.3

(22) Date of filing: 21.09.2000

(84) Designated Contracting States:

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU

MC NL PT SE

Designated Extension States: AL LT LV MK RO SI

(30) Priority: 22.09.1999 JP 26946899

(71) Applicant: Toda Kogyo Corporation Hiroshima-shi, Hiroshima-ken (JP)

(72) Inventors:

Tanaka, Suminori
 Nakatado-gun, Kagawa-ken (JP)

- Shimizu, Toshiaki
 Marugame-shi, Kagawa-ken (JP)
- Matsui, Toshiki Hiroshima-shi, Hiroshima-ken (JP)
- Imai, Tomoyuki Hiroshima-shi, Hiroshima-ken (JP)
- (74) Representative: Woods, Geoffrey Corlett
 J.A. KEMP & CO. Gray's Inn 14 South Square
 London WC1R 5JJ (GB)

(54) Completely combustible paper

(57) A paper having an iron compound catalyst in an amount of 0.1 to 20% by weight,

said iron compound catalyst comprising iron oxide hydroxide particles or iron oxide particles having an average particle size of 0.01 to 2.0 μ m; and having a catalytic activity capable of converting not less than 15% by weight of carbon monoxide into carbon dioxide, when 2.8 X 10⁻⁴ mole of iron oxide particles obtained by heattreating said iron compound catalyst at a temperature

of 800°C for 15 minutes in air, are instantaneously contacted with 6.1 X 10⁻⁷ mole of carbon monoxide at a temperature of 250°C at a space velocity of 42,400 h⁻¹ in an inert gas atmosphere using a pulse catalytic reactor.

The paper of the present invention not only maintains inherent functions as papers, but also can be completely burned and inhibited from generating harmful substances upon incineration thereof after use.



EUROPEAN SEARCH REPORT

Application Number EP 00 30 8258

A		1	to claim	APPLICATION (Int.Cl.7)
	US 5 386 838 A (QUINCY 7 February 1995 (1995-0	III ROGER B ET AL) 2-07)	•	D21H27/16
A,D	PATENT ABSTRACTS OF JAP. vol. 1996, no. 02, 29 February 1996 (1996-& JP 07 257594 A (OKURA 01), 9 October 1995 (19* abstract *	02-29) IND CO LTD;OTHERS:		
				TECHNICAL FIELDS SEARCHED (Int.CI.7)
The present search report has been dr		Date of completion of the search		Examiner
Place of search THE HAGUE		11 January 2002	Son	gy, 0
X : parti Y : parti docu	ATEGORY OF CITED DOCUMENTS icularly relevant if taken alone icularly relevant if combined with another iment of the same category nological background	T: theory or principle t E: earlier patent docu after the filling date D: document cited in t L: document cited for	underlying the ment, but publi the application other reasons	invention ished on, or

ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.

EP 00 30 8258

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

11-01-2002

	Patent document cited in search report		Publication date		Patent family member(s)	Publication date
US	5386838	A	07-02-1995	CA US	2103213 A1 5731257 A	. 10-01-1995 24-03-1998
JP	07257594	Α	09-10-1995	JP	2824203 B2	11-11-1998

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