11) Publication number:

0 030 467

A3

(12

EUROPEAN PATENT APPLICATION

21) Application number: 80304410.6

(51) Int. Cl.³: **G** 21 **F** 9/16

(22) Date of filing: **05.12.80**

30 Priority: 07.12.79 US 158069

(43) Date of publication of application: 17.06.81 Bulletin 81/24

88 Date of deferred publication of search report: 16.09.81

(84) Designated Contracting States: AT BE CH DE FR GB IT LI LU NL SE 71) Applicant: Hitachi, Ltd. 5-1, Marunouchi 1-chome Chiyoda-ku Tokyo 100(JP)

72 Inventor: Hirano, Mikio 1-6-4-104 Nishinarusawa Hitachi Ibaraki(JP)

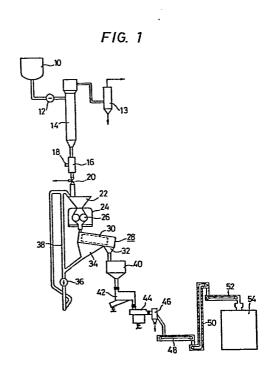
(72) Inventor: Horiushi, Susumu 4-11-8 Ohse Hitachi Ibaraki(JP)

(74) Representative: Paget, Hugh Charles Edward et al, MEWBURN ELLIS & CO. 70/72 Chancery Lane London WC2A 1AD(GB)

(54) Method and apparatus for treatment of radioactive waste.

(5) Radioactive wastes from a nuclear reactor plant are dried into powder and compacted into pellets. The resultant pellets are conveyed to a sealed vessel (54) by a belt conveyor system (48,50,52). To control the spacing of the pellets on the belt conveyors and thereby control the radioactive dose around the belt conveyors, two vibratory feeders (42,44) are arranged in series and operated so that the rate of loading of the pellets onto the belt conveyors is always kept lower than a predetermined level. By the use of the vibratory feeders, adhesion of radioactive powder removed from the pellets onto the belt conveyors is also prevented.

./...





EUROPEAN SEARCH REPORT

Application number

EP 80 30 4410

DOCUMENTS CONSIDERED TO BE RELEVANT				CLASSIFICATION OF THE
Category	Citation of document with in passages	dication, where appropriate, of relevant	Relevant to claim	APPLICATION (Int. Cl. 1)
A	UNION AG)	569 (KRAFTWERK	1	G 21 F 9/16
	* Claims 1,2, & DE - A - 28			3710
		=		
A	FR - A - 2 424 ZENTRUM KARLSRI	611 (KERNFORSCHUNGS THE GMBH)	1	
	* Claim 1 *			
	& DE - A - 2 8	19 086		
	-			TECHNICAL FIELDS SEARCHED (Int. Cl.3)
A	<u>US - A - 3 756</u>	372 (MERTENS)		G 21 F 9/16 9/34
				9/36 9/00 B 65 G 47/08
				CATEGORY OF CITED DOCUMENTS
				X: particularly relevant A: technological background
				O: non-written disclosure P: intermediate document
				T: theory or principle underlying the invention E: conflicting application
				D: document cited in the application
				L: citation for other reasons
	The present search report has been drawn up for all claims			&: member of the same patent family, corresponding document
lace of sea	The Hague	Date of completion of the search 24-06-1981	Examiner NI(COLAS
O Form 1				