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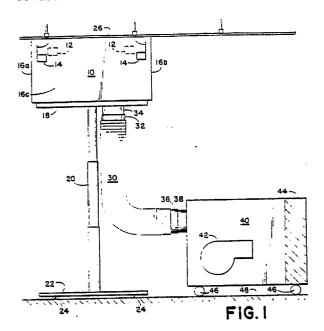
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## 54 Asbestos removal system.

(57) A method and apparatus is disclosed for the safe removal of asbestos-containing materials present in buildings in the form of ceiling or wall panels and the like. The apparatus includes a panelsized containment bin (10) which includes rotary saws (12) that extend outward therefrom to cut loose the asbestos-containing materials. A protective surfactant is first applied to the material to be removed, and the material is then sawed into conveniently sized panels using slow-speed cutting heads and both primary and secondary negative air pressure systems so as to capture within the containment bin (10) any asbestos fibers that become airborne. An encapsulant is also applied to the materials being removed immediately after cutting. The invention may be used for both vertical or horizontal panel installations. The apparatus is mobile and self-propelled, and may be remotely operated to give additional operator safety. The invention when in use has limited the production of residual airborne asbestos fibers to an average of 0.0032 fibers/cc, of fibers over 5 microns long and having an aspect ratio of 3:1, the range of such fiber counts over 15 measurements being 0.0024-0.0047 fibers/cc with a standard deviation of 0.00096.



## **EUROPEAN SEARCH REPORT**

EP 89 30 5591

	DOCUMENTS CONSIL	DERED TO BE RELEVAL	NT	
Category	Citation of document with inc of relevant pass		Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.5)
Х	EP-A-0 130 747 (U.K MACHINERY LTD) * Page 5, lines 21-3 9, lines 1-8; figure	7; pages 6-8; page	1,2,5,6 ,9,10, 11,12	E 04 G 23/00 B 08 B 15/02
Х	US-A-4 274 676 (CHA * Column 3, lines 18 figures 1-5 *		1,2,5,6	
A	rigures 1.3		4,8	
A	WO-A-8 700 222 (FED	ERAL-MOGUL CORP.)		
A	AT-B- 351 989 (SCH	IOPF)		
A	US-A-4 693 755 (ERZ	INGER)		
A	FR-A-2 355 578 (ROU	SSELIN)		
P,X	US-A-4 782 844 (HUGHES) * Columns 1-3; column 4, lines 1-12;		1,5,9, 10,11	
	figures 1-9 * 			TECHNICAL FIELDS SEARCHED (Int. Cl.5)
				E 04 G B 08 B
•				
	The present search report has be	en drawn up for all claims		
	Place of search	Date of completion of the search		Examiner
TH	E HAGUE	06-06-1990	VIJ\	/ERMAN W.C.

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