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A.A. THORNTON & CO. Northumberland
House 303-306 High Holborn
London WC1V 7LE(GB)**(54) **Microphone apparatus.**

(57) A microphone apparatus using a non-directional microphone and a directional microphone equalizes the pressure and vibration responses of the directional microphone located near a sound source to respective counterparts of the non-directional microphone, and processes signals to cancel acoustic noise and vibration noise generated from the sound source near the microphones. This microphone apparatus, when built in an appliance having an acoustic noise and vibration source within it, reduces acoustic noise, vibration noise, and wind noise, to prevent reduction of the S/N ratio at the time of sound pick up, enabling best-quality sound recording.

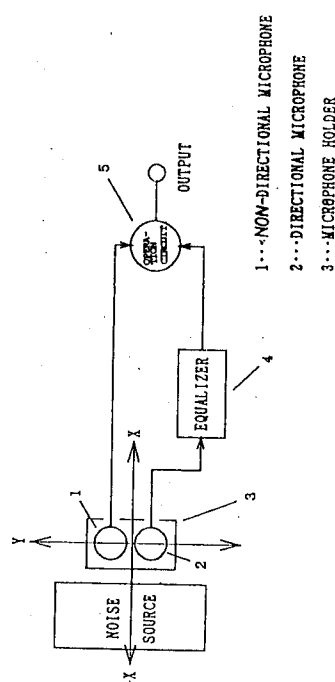


Fig. 1



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EUROPEAN SEARCH REPORT

Application Number

EP 90 31 2516

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.5)
X,P	IEEE TRANSACTIONS ON CONSUMER ELECTRONICS, vol. 36, no. 3, August 1990, NEW YORK US K. ONO ET AL.: 'NOISE-CANCELLING MICROPHONE FOR VIDEO CAMERAS' * the whole document *	1,2	H04R3/00 H04R1/08
X	US-A-4 442 323 (YOSHIDA ET AL.) * column 2, line 4 - column 2, line 23; figure 1 *	1	
A	DE-A-3 102 530 (VICTOR COMPANY OF JAPAN, LTD.) * page 7, line 23 - page 87, line 2; figure 1 * * column 3, line 50 - column 4, line 29; figure 1 *	1	
A	EP-A-0 084 982 (RACAL ACOUSTICS LIMITED) * abstract; figure 1 *	1	
			TECHNICAL FIELDS SEARCHED (Int. Cl.5)
			H04R
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 19 DECEMBER 1991	Examiner GASTALDI G. L.
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			