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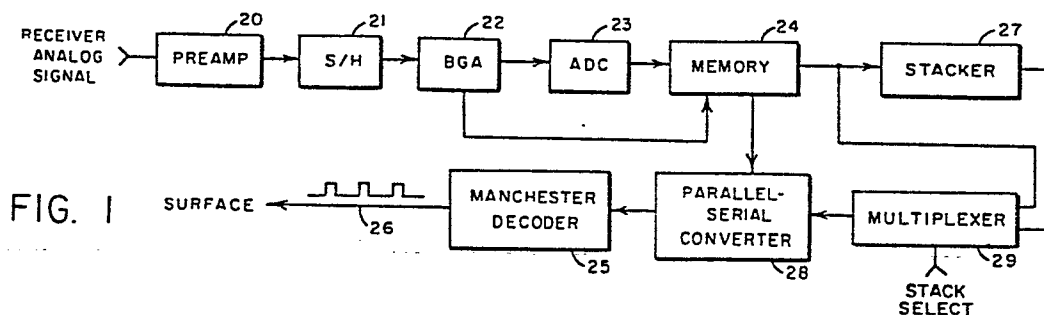
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54 A method and system of data transmission for a borehole logging tool.

57 A borehole logging system employs a transmitter of acoustic energy pulses and at least one receiver for producing an analog signal representative of the acoustic pulses traveling from the transmitter to the receiver through the formation adjacent the borehole as the logging system is moved through the borehole. A sample-and-hold unit 21 samples the analog signal and an analog-to-digital converter 23 produces a digital data word representative of the sampled analog signal. A plurality of digital data words are stored in a memory 24 and converted to a digital serial word for transmission to the surface of the earth over the logging cable 26.





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. ³)
Y	US-A-4 210 967 (INGRAM) * Column 3, line 30 - column 4, line 51; column 6, lines 19-39; figures 1,2 *	1-6	E 21 B 47/12 G 08 C 19/28 G 01 V 1/40
Y	--- US-A-4 214 231 (DONNALY) * Column 3, line 13 - column 5, line 8; figures 1,2 *	1-6	
Y	--- GB-A-2 050 770 (SHELL) * Page 2, lines 61-128; figures 1,2 *	1,2,4- 6	
Y	--- FR-A-2 306 489 (SCHLUMBERGER) * Revendications 1-4; figure 3 *	1,2,4- 6	
			TECHNICAL FIELDS SEARCHED (Int. Cl. ³)
			E 21 B G 01 V G 08 C
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 28-05-1985	Examiner WANZEELE R.J.
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			