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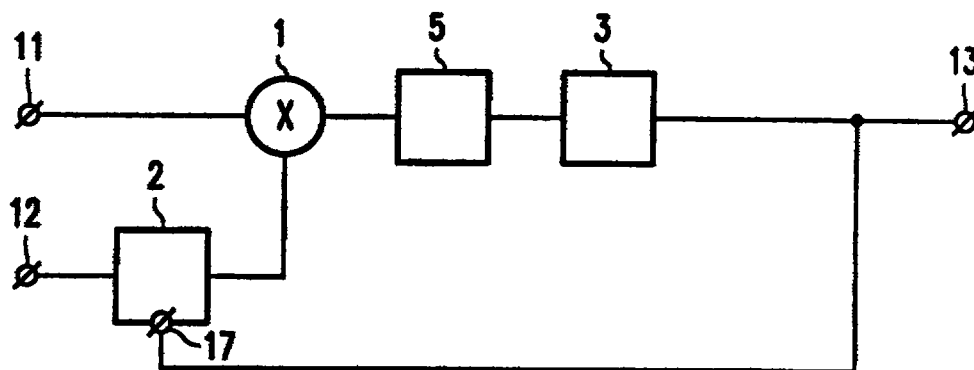
INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶ : H03D 3/00, H03G 5/16	A1	(11) International Publication Number: WO 96/10864 (43) International Publication Date: 11 April 1996 (11.04.96)
(21) International Application Number: PCT/IB95/00768 (22) International Filing Date: 18 September 1995 (18.09.95) (30) Priority Data: 94202823.4 30 September 1994 (30.09.94) EP (34) Countries for which the regional or international application was filed: NL et al. (71) Applicant: PHILIPS ELECTRONICS N.V. [NL/NL]; Groenewoudseweg 1, NL-5621 BA Eindhoven (NL). (71) Applicant (for SE only): PHILIPS NORDEN AB [SE/SE]; Kottbygatan 5, Kista, S-164 85 Stockholm (SE). (72) Inventors: KASPERKOVITZ, Wolfdietrich, Georg; Groenewoudseweg 1, NL-5621 BA Eindhoven (NL). KOKKE, Robert, Frederikus, Eduard; Groenewoudseweg 1, NL-5621 BA Eindhoven (NL). (74) Agent: SCHOONHEIJM, Harry, Barend; Internationaal Octrooibureau B.V., P.O. Box 220, NL-5600 AE Eindhoven (NL).		(81) Designated States: JP, KR, SG, European patent (AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE). Published With international search report. Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.

(54) Title: FM DEMODULATOR WITH THRESHOLD EXTENSION AND RECEIVER COMPRISING SUCH AN FM DEMODULATOR

(57) Abstract

The FM demodulator having two input terminals (11, 12), to which FM input signals having 90° phase relation are applied, said FM demodulator comprising a phase comparator (1) and tunable phase shifting means (2), said phase shifting means (2) being tuned by the FM demodulator output signal via a feedback path comprising a loop filter. By adding a compensation filter (5) to the tuning control loop, the phase shifting means is effectively cancelled from the tuning control loop, thereby making the tuning control loop independent of the bandwidth of the phase shifting means (2). Thus, the bandwidth of the phase shifting means (2) can be reduced for threshold extension.



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