

Title (en)

ARRANGEMENT FOR REDUCING NON-LINEAR DISTORTIONS IN AN OUTPUT SIGNAL OF AN AMPLIFIER STAGE

Title (de)

ANORDNUNG ZUR REDUZIERUNG VON NICHTLINEAREN VERZERRUNGEN BEI EINEM VERSTÄRKERSTUFEN-AUSGANGSSIGNAL EINER VERSTÄRKERSTUFE

Title (fr)

SYSTEME PERMETTANT DE REDUIRE LES DISTORSIONS NON LINEAIRES D'UN SIGNAL DE SORTIE D'UN ETAGE D'AMPLIFICATION

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Application

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Abstract (en)

[origin: WO03079540A2] The invention relates to an arrangement for reducing non-linear distortions in an output signal of an amplifier stage that is configured according to the feed forward principle. An amplifier stage input signal arrives at a main branch of an amplifier. The output signal of the amplifier, which is distorted in a non-linear manner, arrives at an adder by means of which the amplifier stage output signal is formed. The output signal which is distorted in a non-linear manner and the amplifier stage input signal are fed to a secondary branch that comprises an error signal device. Said error signal device generates an error signal from the delayed amplifier stage input signal and the output signal of the amplifier, which is distorted in a non-linear manner. The error signal is fed to the adder in order to reduce distortions in the amplifier stage output signal. The error signal device comprises at least one transmission device that is provided with a negative group delay time.

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