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(54) Title: ARRANGEMENT FOR READING INFORMATION FROM A MAGNETIC RECORD CARRIER

(57) Abstract

An arrangement is disclosed for reading information from a record carrier. The arrangement comprises a read head having at least one magneto–resistive element (R_{mr}), a first transistor (Tr_1) and a second transistor (Tr_2). The base of the first transistor (Tr_1) is coupled to the emitter of the second transistor (Tr_2) via a first capacitor (6). The base of the second transistor (Tr_2) is coupled to the emitter of the first transistor (Tr_1) via a second capacitor (8). The arrangement further comprises a non–linear transconductance amplifier (14) having first and second inputs coupled to the output terminals (10, 12) of the arrangement, and having and inverting and non–inverting outputs coupled to the bases of the first and second transistor. The non–linear transconductance amplifier (14) is adapted to supply a control current at its inverting and non–inverting outputs in response to a voltage present across its inputs, such that for first and second input voltages resulting in first and second output currents, respectively, the first input voltage being larger than the second input voltage, the amplification factor of the transconductance means being larger for generating the first output current than for generating the second output current.

