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(54) **ELECTRICAL CIRCUIT FOR TRANSMITTING A USEFUL ANALOGUE SIGNAL, WITH A SWITCH AND A COMPENSATION CIRCUIT FOR COMPENSATING SIGNAL DISTORTIONS WHEN THE SWITCH IS SWITCHED OFF**

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(57) **ABSTRACT**

The invention relates to an electrical circuit (**1**) for transmitting a useful analogue signal, which has a signal transmission path (**16**) with an input path (**2**) and an output path (**3**) and at least one switch (**6**), with which the useful signal which is carried on the input path (**2**) can be connected through to the output path (**3**) or the signal transmission path (**16**) can be interrupted. According to the invention, a compensation circuit (**4**) which substantially compensates for a distortion of the useful analogue useful signal generated by the at least one switch (**6**) when it is switched off (OFF) is provided, wherein the compensation circuit (**4**) is connected to a control terminal (G) of the at least one switch (**6**) and comprises at least one non-linear capacitance.