

Title (en)  
A MODULATOR

Title (de)  
EIN MODULATOR

Title (fr)  
MODULATEUR

Publication  
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Application  
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Abstract (en)  
[origin: WO0005807A1] A modulator for modulating a carrier signal with a modulating signal, the modulator having an input stage (51) for receiving a directly coupled balanced modulating signal (MS) and for providing a grounding path for the carrier signal (CS), a switching network (52) for switchably supplying, in accordance with a switching cycle controlled by the carrier signal (CS), the modulating signal in either forward or reverse sense to an output stage (53), a further input stage (14, 29, 30) for providing an input for the carrier signal (CS), and an output stage (53) for converting the balanced modulated signal into an unbalanced output signal. The balanced modulating signal (MS) is directly coupled by means of a conductive or resistive coupling (21, 22) in the input stage. The switching network (52) comprises two pairs of signal paths which are switched "on" and "off" in anti-phase with one another in accordance with the switching cycle. The further input stage (14, 29, 30) couples the carrier signal (CS) to the switching network such that the carrier signal operates in a common mode on the two pairs of signal paths. The carrier signal is an unbalanced signal which is coupled to output terminals via parallel resistive couplings (R3). The output stage comprises a balun (55).

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