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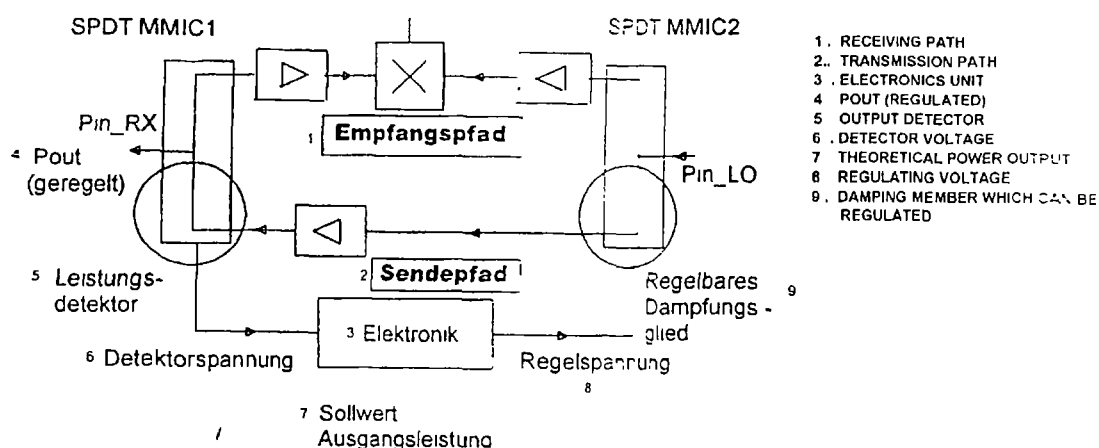
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(54) Title: **Process and System for Regulating Millimeter Wave Power in a V Band TR Module**



(57) Abstract: In a process for regulating the millimeter wave power in a V band TR module, wherein the output power is detected and adjusted to a constant level with the aid of regulating electronic means via an attenuating element, it is suggested that in the case of transmission, for operation at a frequency in the range of 60 GHz or higher, a first SPDT (single pole double throw) MMIC switch is used as adjustable attenuating element and a second SPDT MMIC operated as transmission/reception switch is used as detector of the output power and that in the case of reception, the two SPDTs are used as switch. The power regulation causes for the entire TR module an overall increase in the module yield as a consequence of compensation of the spread of chip properties and temperature effects. The multiple use of the SPDT MMICs as switch, attenuating element, and power detector provides the aforementioned advantages.

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