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In power amplifiers when output current requirements is very high, the transistors at the output stage are connected in parallel to increase output current level. But for this connection, it is necessary to connect equalizing resistors to make equal current distribution between parallel connected transistors. Power MOSFETs can readily be operated in parallel to reduce the total channel resistance and increase the output current level. There is no need of equalizing resistors in case of MOSFETs.

The MOSFET power amplifier can be constructed by replacing transistors at the output stage by MOSFETs and changing biasing circuit. The biasing circuit for MOSFET is simpler than the biasing circuit required for transistor.

