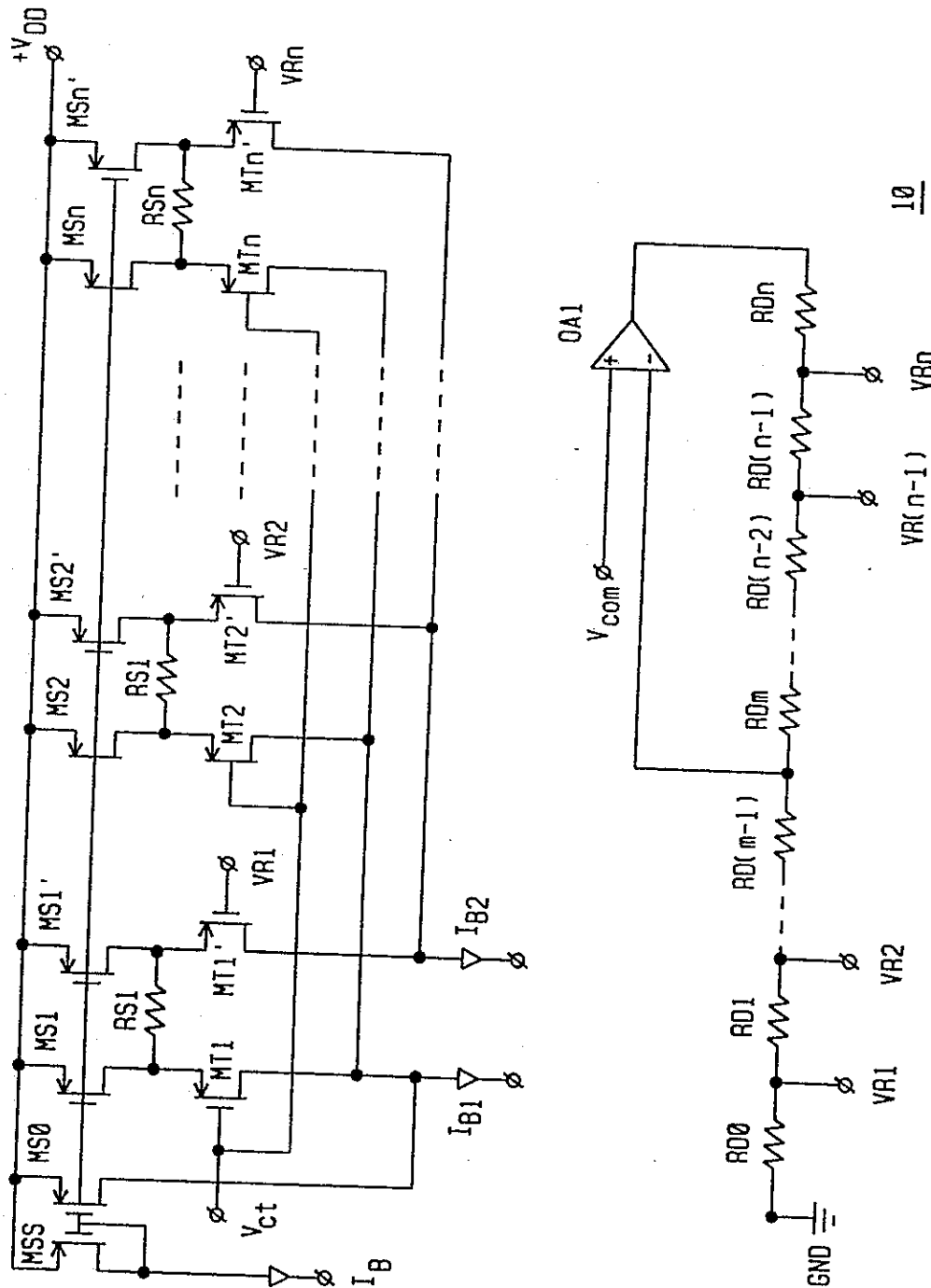


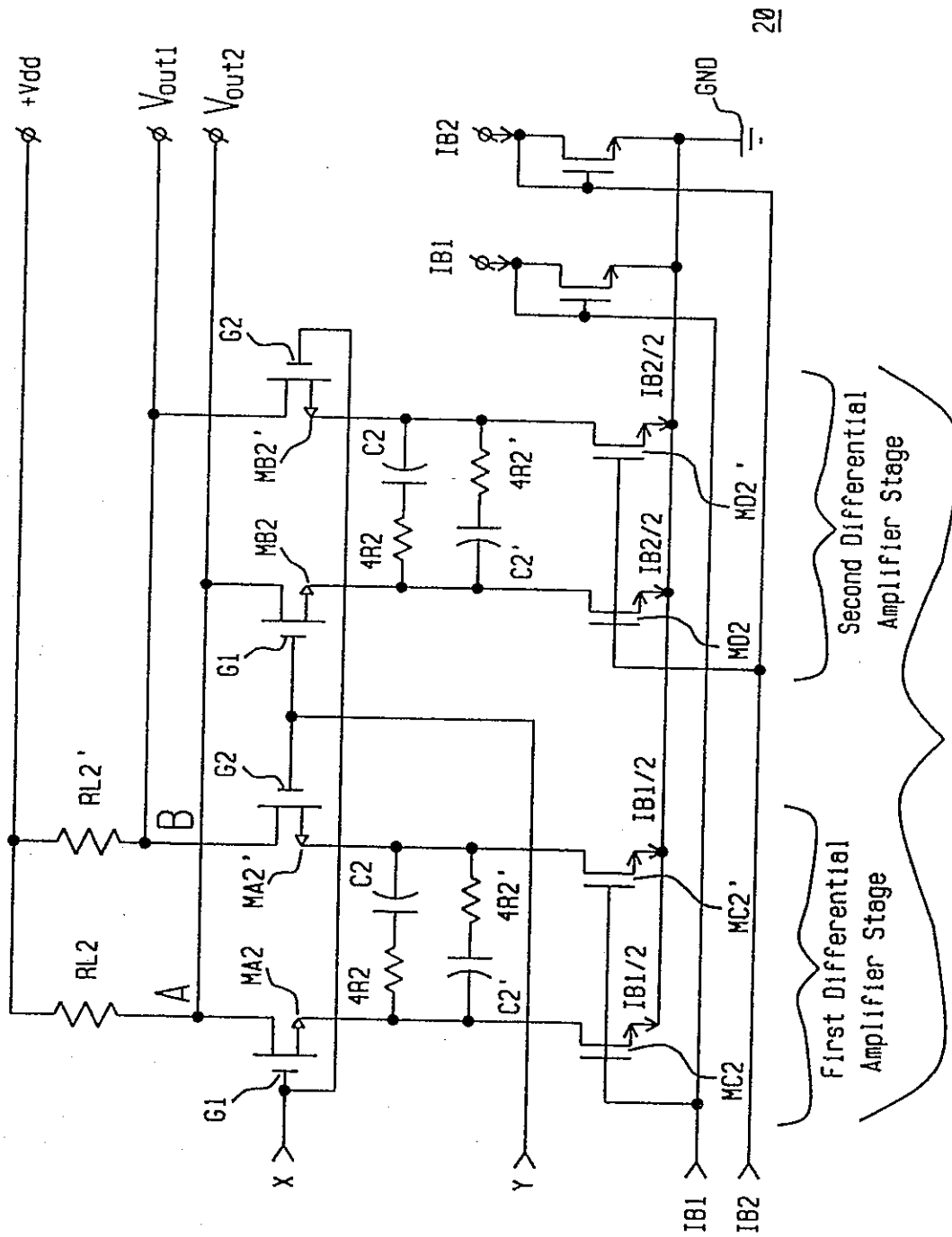


BIAS CONTROL CIRCUIT

FIG. 1

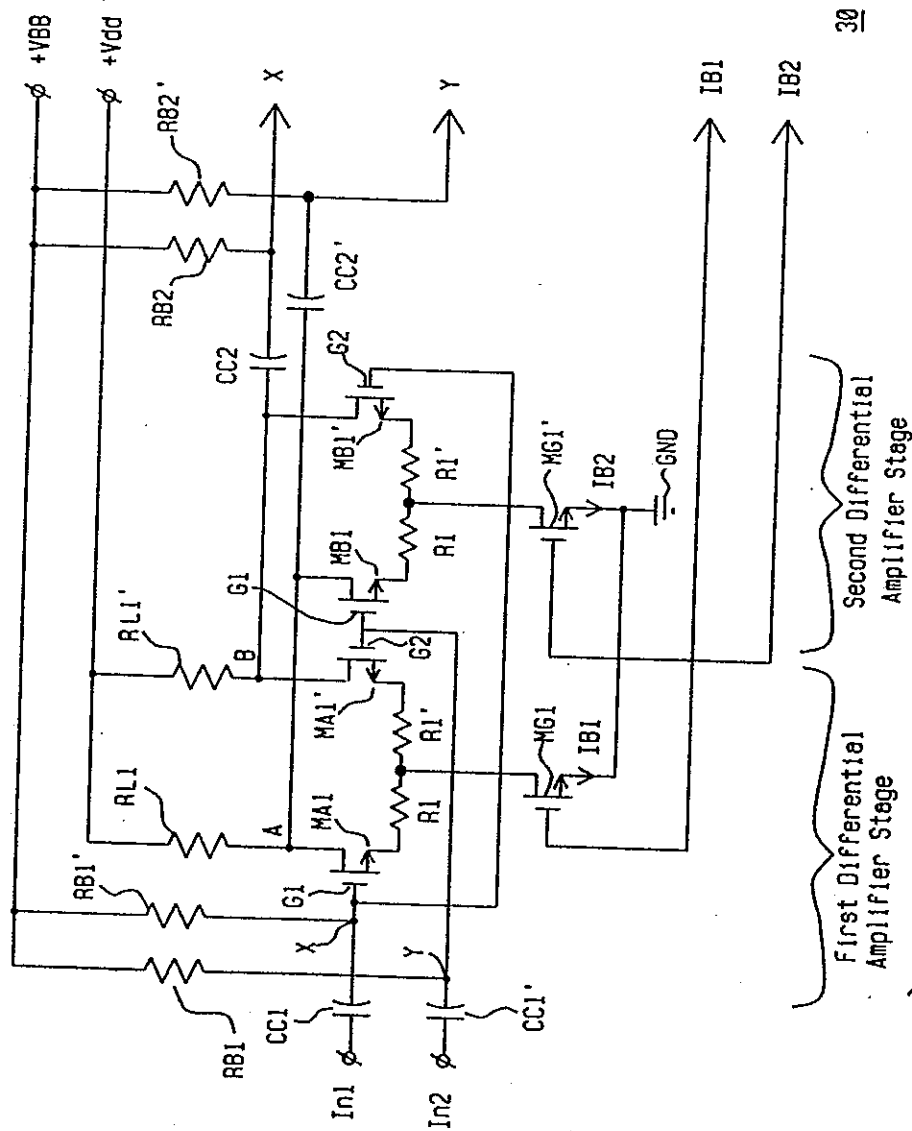


FIG. 2a



Second Variable Gain Differential Amplifier

FIG. 2b



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FIG. 3a

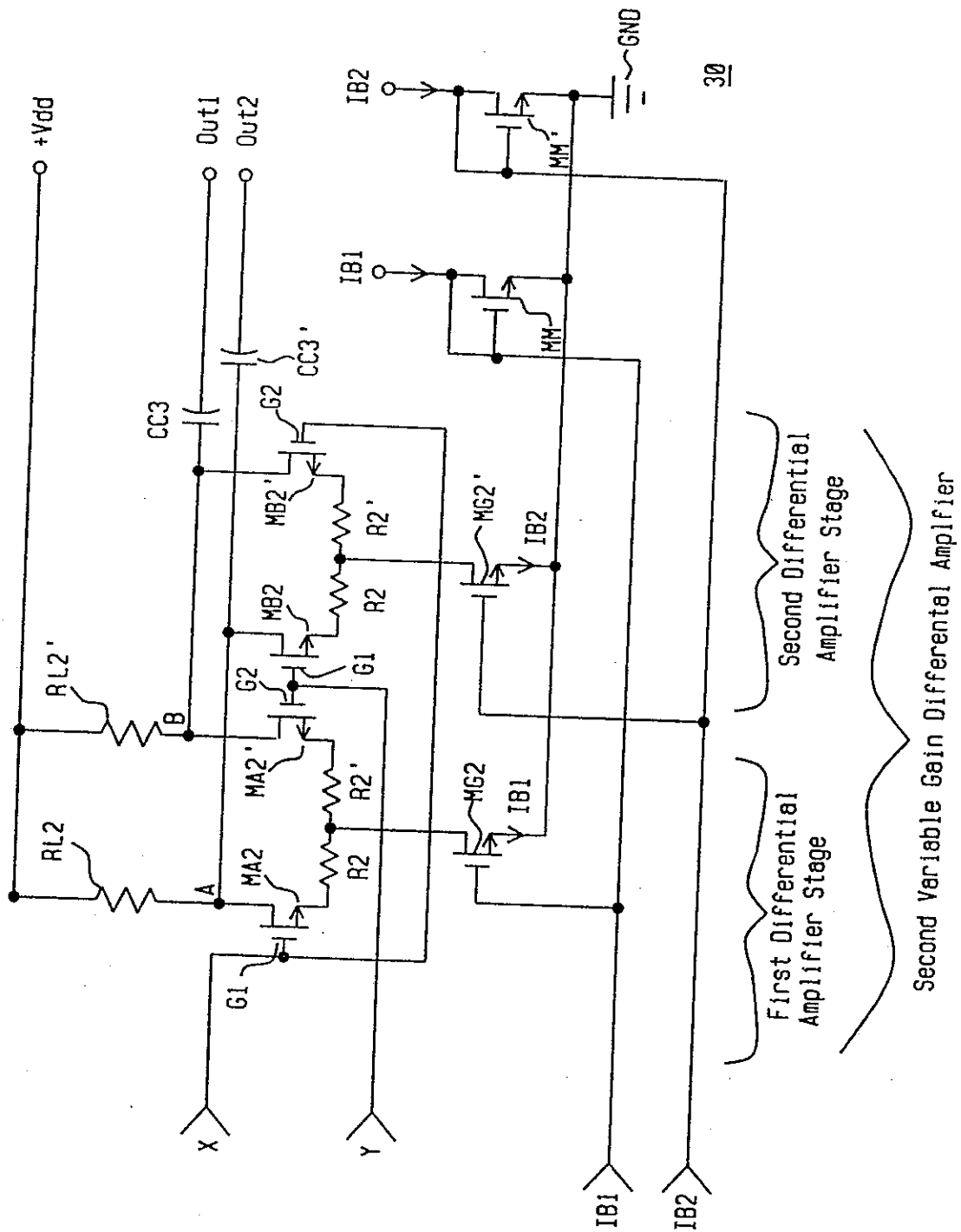


FIG. 36

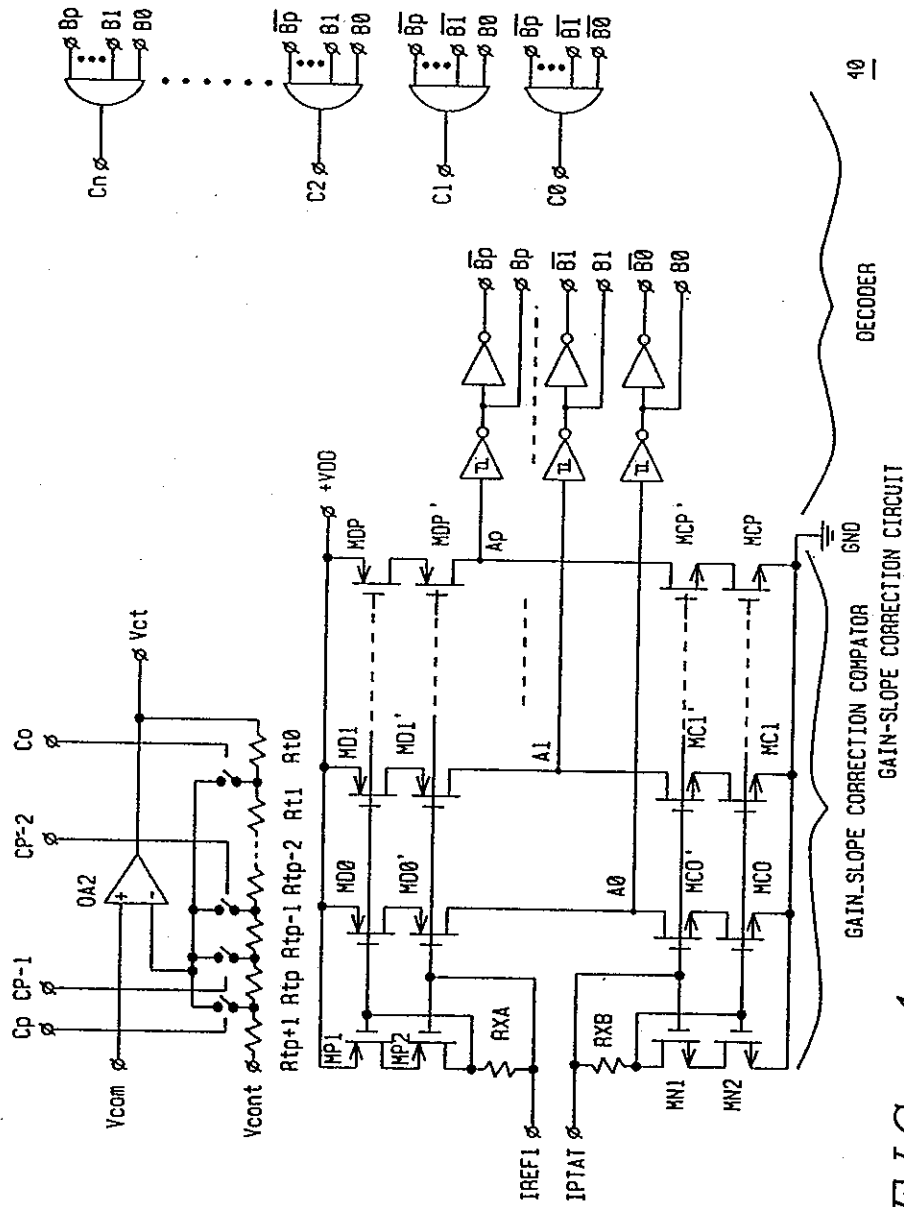


FIG. 4

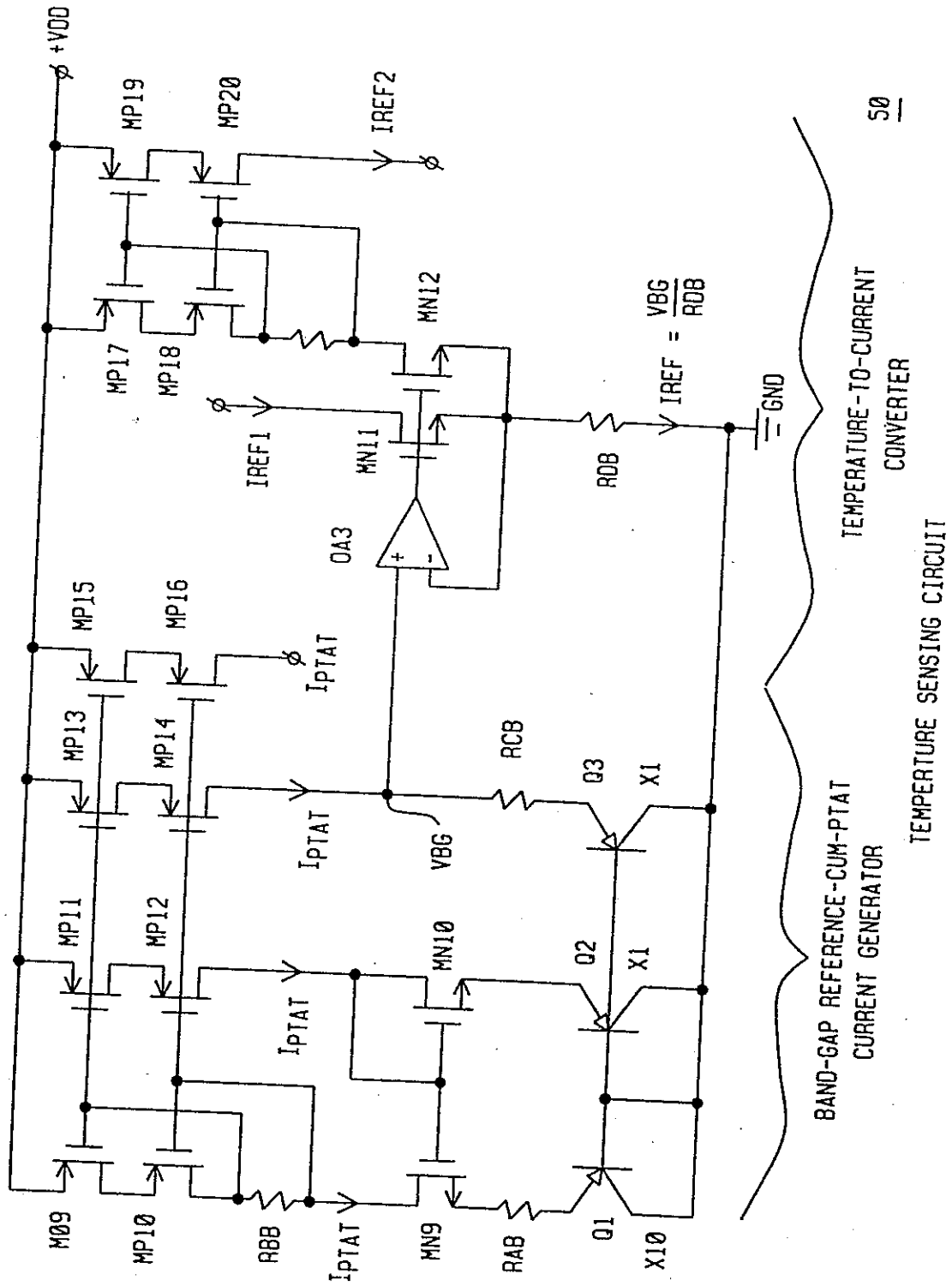


FIG. 5

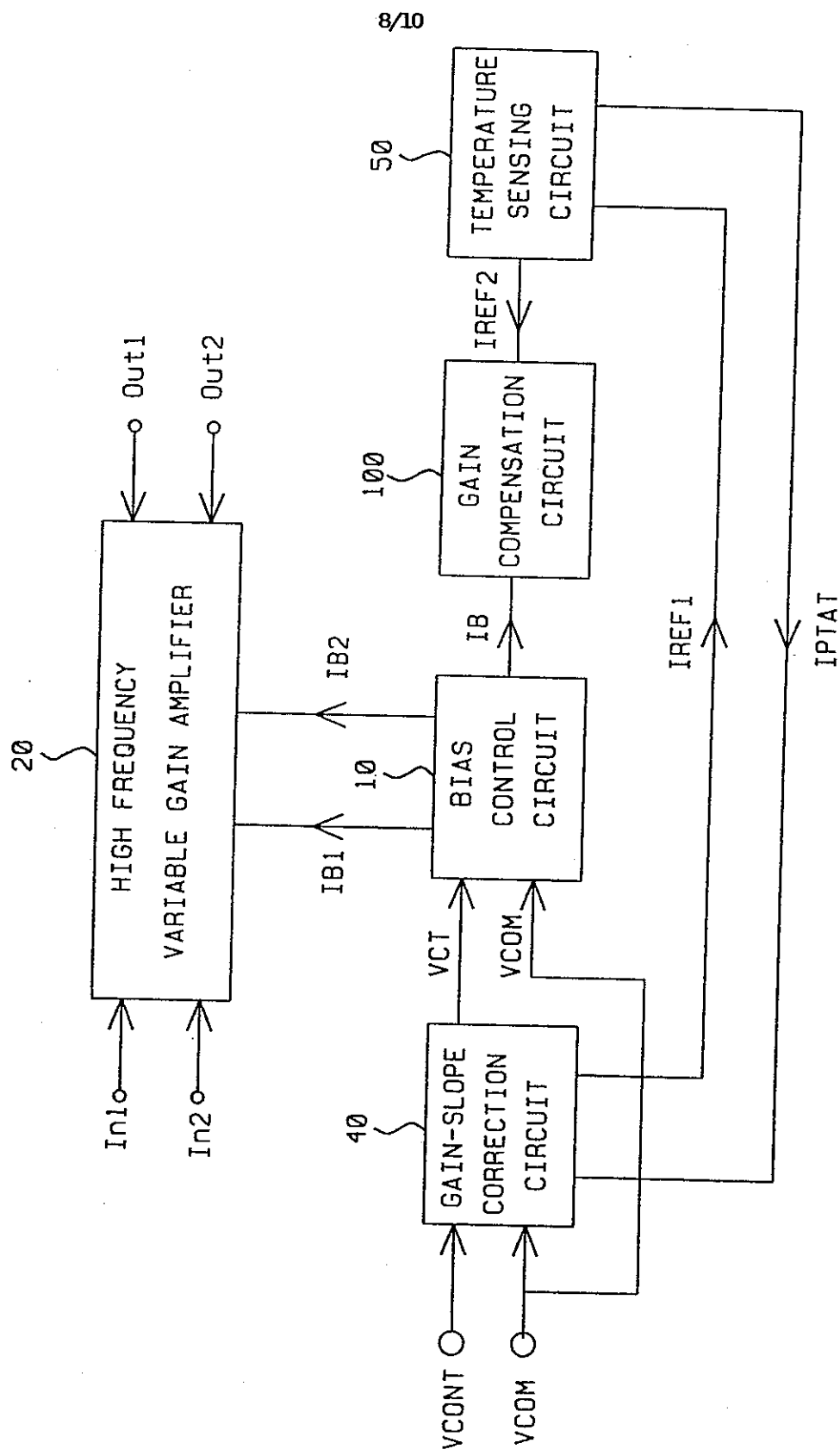
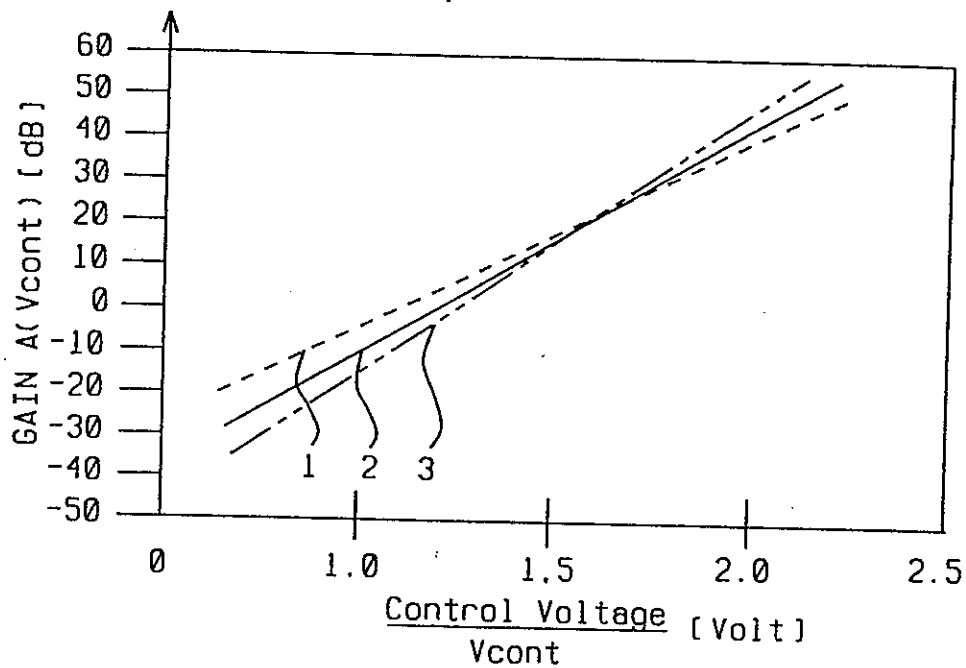


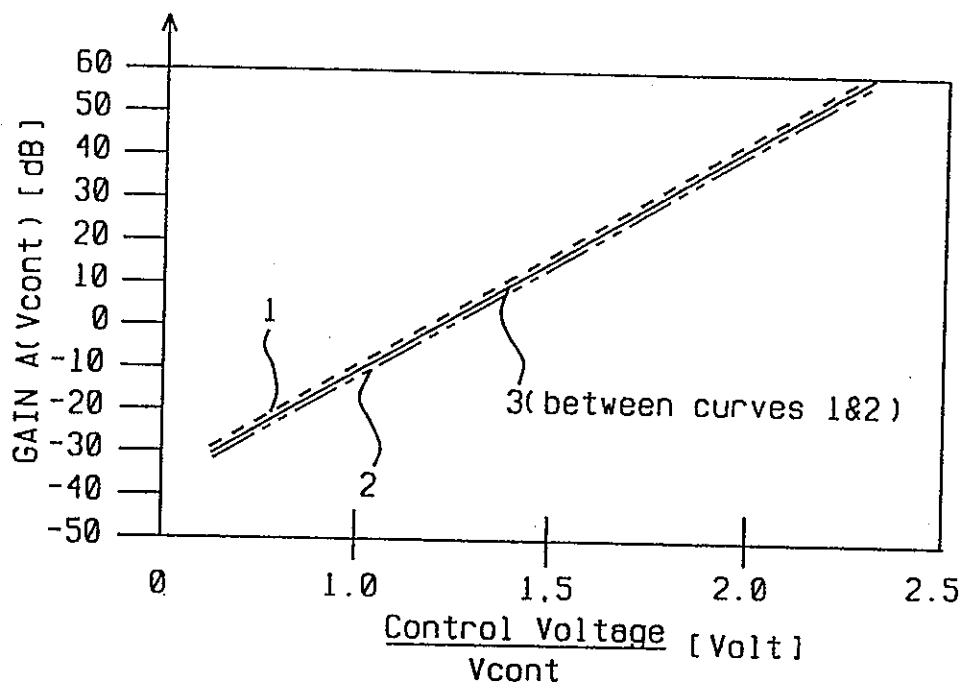
FIG. 6

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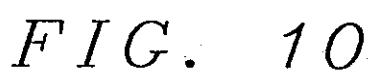
GAIN CONTROL CHARACTERISTICS
(PARTIAL COMPENSATION)

FIG. 7



GAIN CONTROL CHARACTERISTICS
(FULL COMPENSATION)

FIG. 8



GAIN COMPENSATION CIRCUIT