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T934,009

COMPOSITE TRANSISTOR

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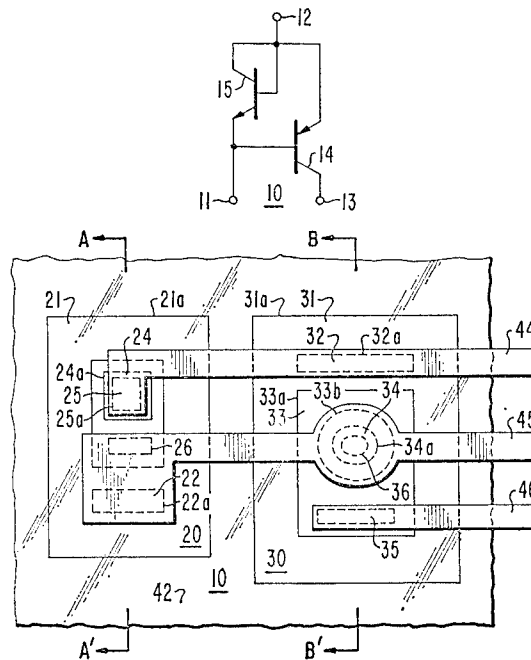
RCA Corporation

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2 Sheets Drawing. 10 Pages Specification



The composite transistor integrated within a common semiconductor body comprises a common-emitter amplifier connection of a lateral-structure transistor with its base-emitter junction paralleled by a diode-connection of a vertical-structure transistor. The magnitude of the "common-emitter forward current gain" of the composite transistor is the ratio of a saturation current of the lateral-structure transistor to the saturation current of the vertical structure transistor, which current gain is shown to be independent of temperature.

May 6, 1975

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T934,009

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2 Sheets-Sheet 1

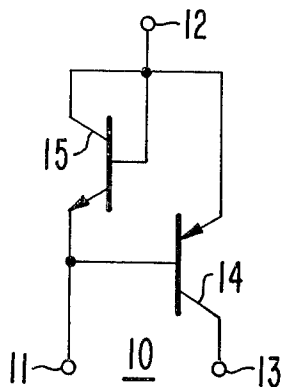


Fig. 1.

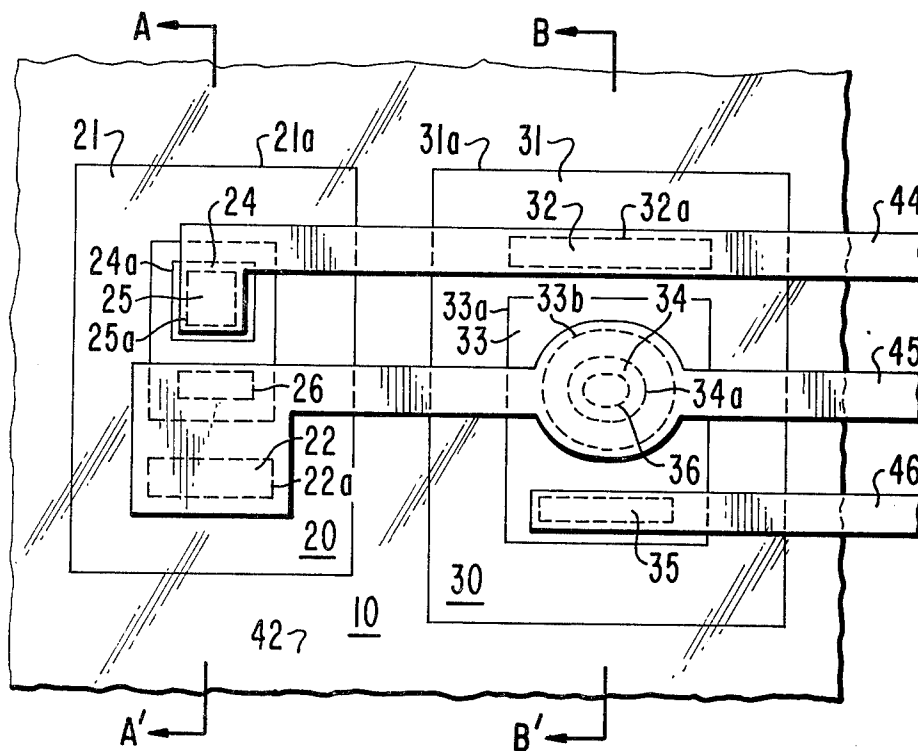


Fig. 2.

May 6, 1975

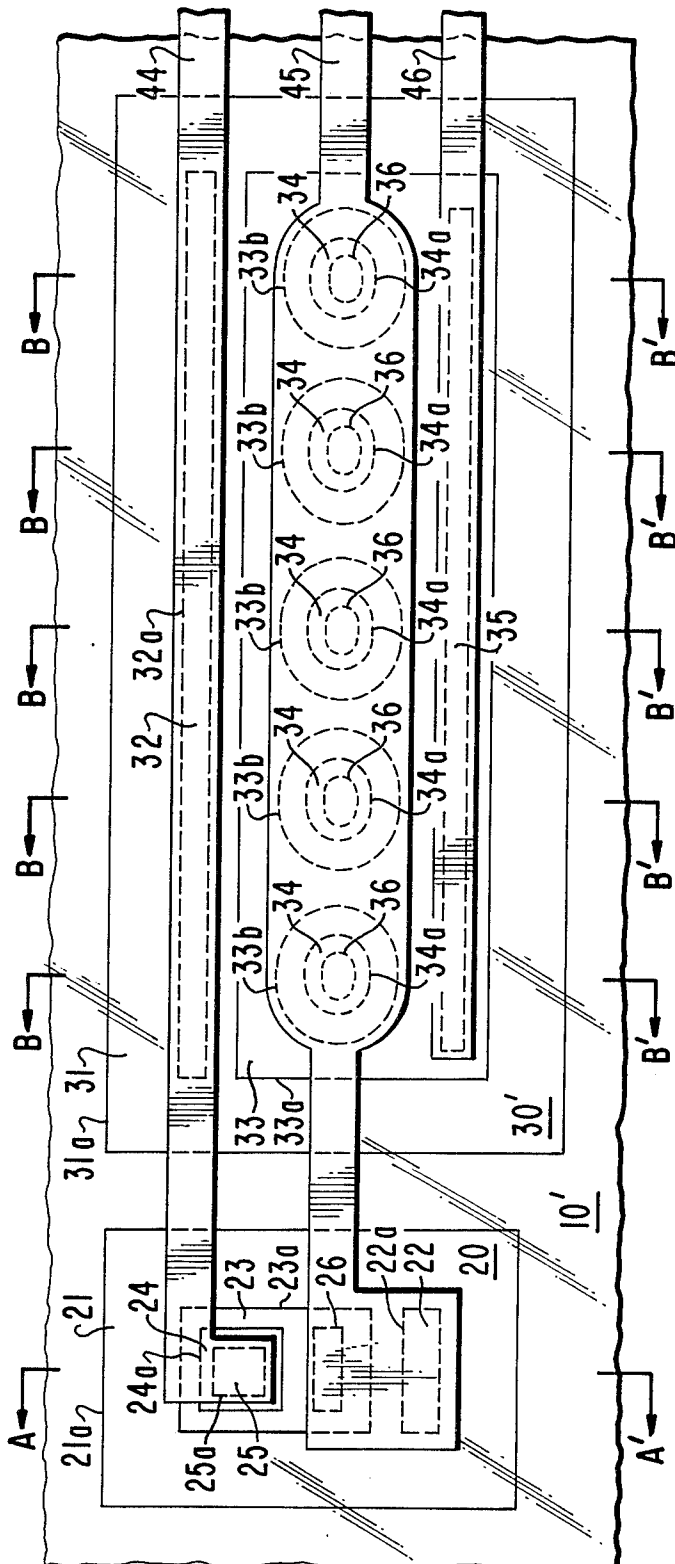
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2 Sheets-Sheet 2



PLAN

Fig. 3.

Fig. 5.

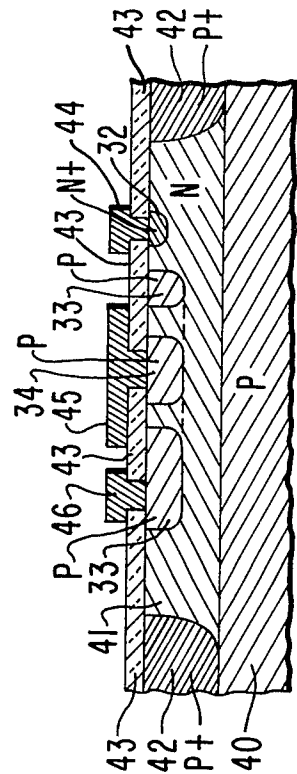
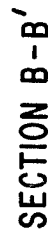


Fig. 4.

