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(54) **DYNAMIC CONTROL OF FRONT-END
STAGE TRANSCONDUCTANCE IN BIPOLAR
AMPLIFIERS**

(52) **U.S. Cl.**
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(57) **ABSTRACT**

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Examples of circuits, amplifiers and stages thereof include a front-end including an input section having a voltage input and a current output; a current generating section operably coupled to the input section and which produces one or more bias currents to generate a tail current that biases the input section. A signal node, which may be the output terminal of the stage, is operably coupled to the input section. Transconductance choke circuitry is coupled to the signal node and to the current generating section. The transconductance choke circuitry is configured to reduce transconductance of the front-end when the signal at the signal node exceeds an upper threshold or drops below a lower threshold.

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