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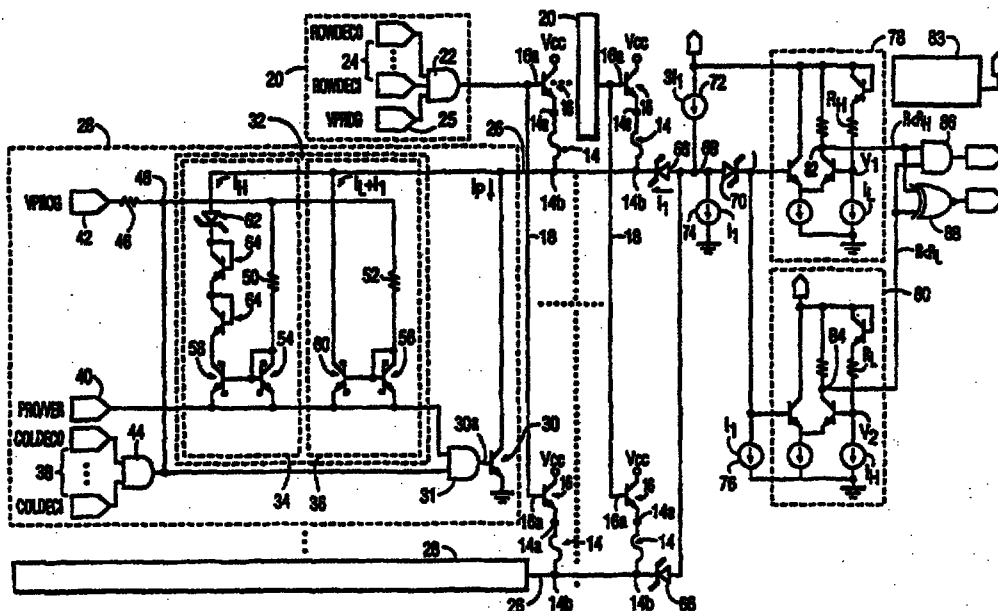
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(54) Title: PROGRAMMABLE LOGIC DEVICE WITH VERIFY CIRCUITRY FOR CLASSIFYING FUSE LINK STATES AS VALIDLY CLOSED, VALIDLY OPEN OR INVALID



## (57) Abstract

A PLD with an array of fuse or anti-fuse links includes verification circuitry configured to classify the links into three zones, corresponding to a "closed" state zone of low resistance values, an "open" state zone of high resistance values and a "forbidden" state zone intermediate the "closed" and "open" state zones. Because the ratio between the higher and lower resistance value is typically 200, the verification circuitry includes a switchable two level current source that produces a voltage across the link of correct dynamic range.

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