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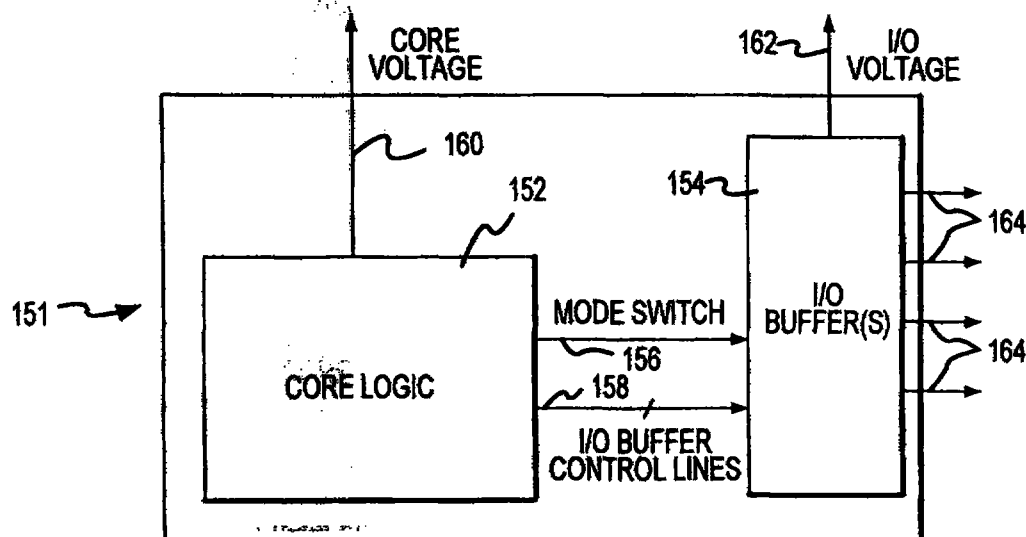
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(54) Title: **MULTI-VOLTAGE POWER-UP STABLE INPUT/OUTPUT BUFFER CIRCUIT IN A DISC DRIVE**



(57) Abstract: An integrated circuit for particular use in a disc drive has a core logic module connected to a core voltage, an input/output buffer module connected to an input/output voltage and having input/output buffer control lines connected to the core logic module, and a mode switch input on the I/O buffer module that is operable to prevent output operation of the I/O buffer module whenever core voltage is below a safe operating level. One embodiment has the core logic module determining when the safe operating level is met and providing an appropriate signal to the I/O buffer. Another embodiment has a separate level detect module operably connected to the core voltage and the input/output voltage determining when the safe operating level is met, and having an output connected to the mode switch input on the I/O buffer module.

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