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(54) Title: SWITCHING CONVERTER WITH MULTIPLE DRIVE STAGES AND RELATED MODES

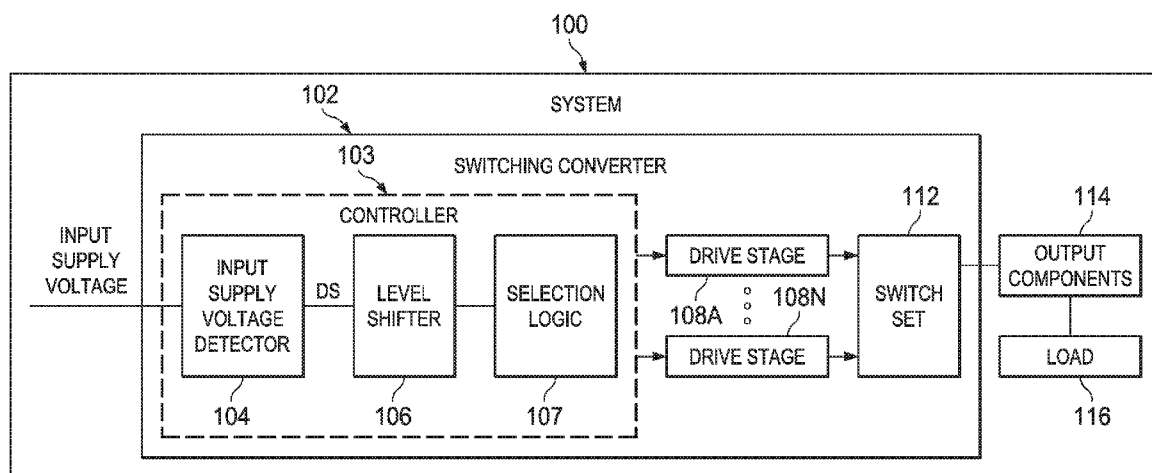


FIG. 1

(57) Abstract: A system (100) includes a switching converter (102) with an output inductor (114). The switching converter (102) also includes a switch set (112) with a switch node (430) coupled to the output inductor. The switching converter (102) also includes a first drive stage (108A) coupled to the switch set (112). The switching converter (102) also includes a second drive stage (108B) coupled to the switch set (112). The switching converter (102) also includes a controller (103) coupled to the first drive stage (108A) and the second drive stage (108B). The controller (103) includes a supply voltage detector circuit (104). The controller (103) also includes a level shifter (106) coupled to an output of the supply voltage detector circuit (104). The controller (103) also includes a selection circuit (107) coupled between the level shifter (106) and the second drive stage (108B).



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