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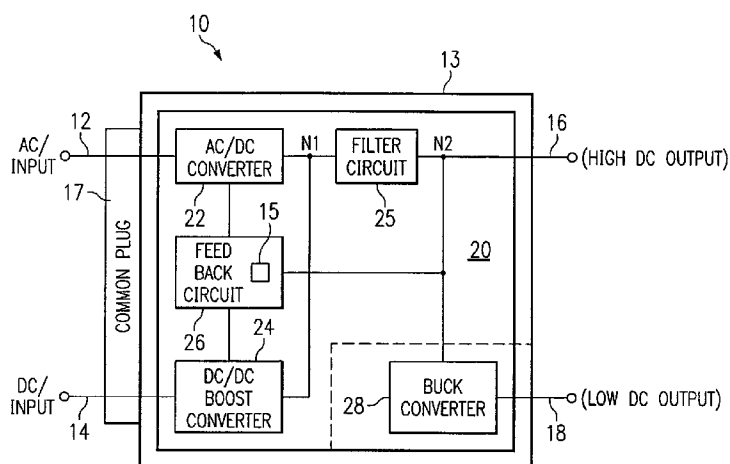
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(54) Title: DUAL INPUT AC AND DC POWER SUPPLY HAVING A PROGRAMMABLE DC OUTPUT UTILIZING A SECONDARY BUCK CONVERTER



(57) Abstract: A dual input AC/DC power converter (10) having dual inputs (12, 14) adapted to receive both an AC and DC input and provide a selectable DC voltage output (16) and a second DC output (18). The dual input AC/DC power converter (10) comprises a power converter circuit (20) having an AC-to-DC converter (22), a DC-to-DC booster converter (24), a feedback circuit (26), a filter circuit (25) and a DC-to-DC buck converter (28). Advantageously, the power converter (10) resolves many of system management problems associated with carrying all of the different interface components necessary to power a wide variety of mobile products from either an AC or DC power supply. In addition, the power converter (10) also advantageously includes dual output voltage terminals (16/18) to allow for multiple mobile devices of varying power requirements to be powered simultaneously, by a single converter.



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