

**OUTPUT STAGE OF OPERATIONAL AMPLIFIER SUITABLE FOR
MOUNTING ON A SUBSTRATE AND METHOD OF AMPLIFYING
THEREWITH**

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Abstract of the Disclosure

10 An output stage (418) for an operational amplifier (403) powered
by a first supply voltage rail (102) and a second supply voltage rail (104)
includes a buffer (100) and a current booster (500) for amplifying an
input voltage (105) into a low impedance output signal (117 and 520).
The buffer (100) amplifies the input voltage (105) into the amplified
output signal (117 and 520) when the input voltage (105) is within a
buffer voltage range (210), the buffer voltage range (210) contained
15 within a maximum voltage range (208) defined by a voltage difference
in the first supply voltage rail (102) and the second supply voltage rail
(104). The current booster (500) assists the buffer (100) in amplifying the
input voltage (105) into the output signal (117 and 520) when the input
voltage (105) is outside of the buffer voltage range (210) but within the
20 maximum voltage range (208).

Figure 5 accompanies this abstract.