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HONDA(10) **Pub. No.: US 2022/0407470 A1**(43) **Pub. Date: Dec. 22, 2022**(54) **HARMONIC PROCESSING CIRCUIT AND
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ABSTRACT

A harmonic processing circuit includes a first inductor having a first end connected to a connection line connected between an amplifier and an impedance matching circuit, and a second end connected to a first node, a first transmission line having a third end connected to the first node and a fourth end connected to a second node, and a parallel resonant circuit having a fifth end connected to the second node and a sixth end connected to a reference potential, wherein a second inductor and a first capacitor are connected in parallel between the fifth end and the sixth end, wherein when the first inductor is viewed from the connection line, an impedance at a frequency of a fundamental wave amplified by the amplifier is larger than an impedance at a frequency of a second harmonic having twice the frequency of the fundamental wave.

