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**KIRIBUCHI et al.**(10) **Pub. No.: US 2022/0352808 A1**(43) **Pub. Date: Nov. 3, 2022**(54) **DC POWER SUPPLY DEVICE AND SERVO  
DC POWER SUPPLY SYSTEM**(30) **Foreign Application Priority Data**

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(71) Applicant: **OMRON Corporation**, Kyoto-shi,  
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KYOTO (JP); **Toshiyuki ZAITSU**,  
Kyoto-shi, KYOTO (JP); **Takeshi**  
**ASHIDA**, Kyoto-shi, KYOTO (JP);  
**Masashi DOI**, Kyoto-shi, KYOTO (JP)

(57)

**ABSTRACT**

A DC power supply device capable of preventing voltage oscillation of a power supply path to a motor control device is provided. The DC power supply device includes a power supply unit (such as an AC/DC converter) that outputs a DC and a filter circuit that detects a voltage fluctuation of the DC output from the power supply unit and adjusts impedance of own circuit such that the voltage fluctuation of the DC is prevented based on a detection result.

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