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SAWAGUCHI et al.(10) **Pub. No.: US 2022/0416754 A1**(43) **Pub. Date: Dec. 29, 2022**(54) **BAND-PASS FILTER****Publication Classification**(71) Applicant: **TDK CORPORATION**, Tokyo (JP)(72) Inventors: **Shuhei SAWAGUCHI**, Tokyo (JP);
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ABSTRACT

A band-pass filter includes an unbalanced port, a first balanced port, a second balanced port, and first to third resonators provided between the unbalanced port and the first and second balanced ports. The second resonator and the third resonator each are a resonator with both ends open. The second resonator and the third resonator are adjacent to each other in a circuit configuration, and electromagnetically coupled by magnetic coupling as main coupling. The first resonator is provided closer to the second resonator than to the third resonator, and jump-coupled to the third resonator.

