



US 20230230754A1

(19) **United States**(12) **Patent Application Publication**
TOMOHIRO(10) **Pub. No.: US 2023/0230754 A1**(43) **Pub. Date: Jul. 20, 2023**(54) **COIL COMPONENT**(52) **U.S. Cl.**CPC **H01F 27/292** (2013.01); **H01F 17/0013**
(2013.01)(71) Applicant: **Murata Manufacturing Co., Ltd.**,
Kyoto-fu (JP)(72) Inventor: **Takashi TOMOHIRO**, Nagaokakyo-shi
(JP)(73) Assignee: **Murata Manufacturing Co., Ltd.**,
Kyoto-fu (JP)(21) Appl. No.: **18/151,065**(22) Filed: **Jan. 6, 2023**(30) **Foreign Application Priority Data**

Jan. 14, 2022 (JP) 2022-004580

Publication Classification(51) **Int. Cl.****H01F 27/29** (2006.01)**H01F 17/00** (2006.01)

(57)

ABSTRACT

A coil component having a low inductance and capable of coping with a large current by lowering DC resistance. A coil component includes a magnetic body, a coil in the magnetic body, an external electrode on at least a bottom surface of the magnetic body and electrically connected to the coil, and an extended conductor having one end connected to the coil inside the magnetic body and the other end connected to the external electrode on the bottom surface of the magnetic body. The external electrode includes first and second external electrodes. The extended conductor includes a first extended conductor having one end connected to a start end of the coil and the other end connected to the first external electrode, and a second extended conductor having one end connected to a terminal end of the coil and the other end connected to the second external electrode.

