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TAKAHASHI et al.(10) **Pub. No.: US 2023/0231250 A1**(43) **Pub. Date: Jul. 20, 2023**(54) **CELL CASE OF SECONDARY BATTERY
AND BATTERY MODULE****H01M 50/103** (2006.01)**H01M 50/15** (2006.01)(71) Applicant: **NIPPON STEEL CORPORATION,**
Tokyo (JP)(52) **U.S. Cl.****CPC** **H01M 50/204** (2021.01); **H01M 10/613**
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ABSTRACT(73) Assignee: **NIPPON STEEL CORPORATION,**
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A cell case of a secondary battery comprised of a can body to which a can bottom is double seamed, in which cell case, it is possible to solve the problem of the drop in cooling efficiency due to the presence of a double seam when cooling such a cell case by a cooling device or using a cooling sheet, and a battery module having a plurality of such cell cases are provided. That is, a cell case of a secondary battery having a rectangular tube-shaped can body, a can bottom double seamed to a bottom end of the can body, and a can lid double seamed to a top end of the can body, in which cell case of a secondary battery, an area ratio 51 of part of the can bottom, comprised of a portion 1 between a plane vertical to the can body a distance of 0.5 mm above a bottom end of a double seam of the can body and the can bottom and a plane vertical to the can body a distance of 1.0 mm below the bottom end of the double seam, with respect to a cross-sectional area of the can body at the bottom end of the double seam is 50% or more, and a battery module having a plurality of such cell cases are provided.

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