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**MARUYAMA**(10) **Pub. No.: US 2024/0213517 A1**(43) **Pub. Date: Jun. 27, 2024**(54) **NON-AQUEOUS RECHARGEABLE  
BATTERY AND METHOD FOR  
MANUFACTURING NON-AQUEOUS  
RECHARGEABLE BATTERY****Publication Classification**(51) **Int. Cl.**  
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A non-aqueous rechargeable battery includes an electrode body formed by rolling a stack of positive and negative electrode plates with a separator that holds a non-aqueous electrolyte solution disposed in between. The electrode body includes a curved portion in which layers of the electrode body are curved. The positive electrode plate includes a foil of a positive electrode substrate and a positive electrode mixture layer applied to the positive electrode substrate. The negative electrode plate includes a foil of a negative electrode substrate and a negative electrode mixture layer applied to the negative electrode substrate. The negative electrode mixture layer includes a negative electrode active material that intercalates a charge carrier during charging. A coefficient of static friction between the negative electrode mixture layer and the separator is 0.60 or greater. A coefficient of static friction between the positive electrode mixture layer and the separator is 0.50 or less.

