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KWON et al.(10) **Pub. No.: US 2024/0213470 A1**(43) **Pub. Date: Jun. 27, 2024**(54) **POSITIVE ELECTRODE FOR
RECHARGEABLE LITHIUM BATTERY, AND
RECHARGEABLE LITHIUM BATTERY
INCLUDING THE SAME****H01M 4/505** (2006.01)**H01M 10/0525** (2006.01)(52) **U.S. Cl.****CPC** **H01M 4/525** (2013.01); **H01M 4/364**
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(57)

ABSTRACT

A positive electrode for a rechargeable lithium battery includes a current collector and a positive electrode active material layer on the current collector, the positive electrode active material layer including a positive electrode active material, the positive electrode active material includes about 75 wt % to about 100 wt % of a first positive electrode active material in a form of single particles and including a lithium nickel-based composite oxide having a nickel content of greater than or equal to about 70 mol %, and about 0 wt % to about 25 wt % of a second positive electrode active material in a form of secondary particles in which a plurality of primary particles are aggregated and including a lithium nickel-based composite oxide, and, in an X-ray diffraction analysis of the positive electrode, a ratio of a peak intensity of a (003) plane to a (104) plane is greater than or equal to about 4.8.

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