CLAIMS

Claim 1: A negative electrode structure (100, 100A), applied to an aluminum battery, the negative electrode structure (100, 100A) comprising:

a metal base (110); and

a plurality of holes (120), disposed on a surface of the metal base (110), wherein a pore diameter of each of the plurality of holes (120) ranges from 0.05 micrometers (μm) to 500 μm, the plurality of holes (120) are made by electroplating or electroforming deposition, and the plurality of holes (120) have single pore diameter.

Claim 2: The negative electrode structure (100, 100A) according to claim 1, wherein a material of the metal base (110) comprises aluminum, nickel, copper, titanium, tin, zinc, stainless steel, alloys thereof or combinations thereof.

Claim 3: The negative electrode structure (100, 100A) according to claim 2, wherein the material of the metal base (110) is aluminum.

Claim 4: The negative electrode structure (100, 100A) according to claim 1, wherein a material of the metal base (110) is nickel.

Claim 5: The negative electrode structure (100, 100A) according to claim 1, wherein the negative electrode structure (100, 100A) is a mesh structure.