

ABSTRACT OF THE DISCLOSURE

LITHIUM ELECTRODE

5 The invention discloses a lithium electrode. The electrically conductive structure layer has a recess with one-side opening, and the lithium metal layer is disposed on the bottom of the recess. The solid electrolyte layer and the electrolyte storage layer are disposed thereon sequentially. When the lithium metal is plated, the plated lithium metal is restricted by the solid electrolyte layer to push and compress the electrolyte storage layer. Therefore, the
10 growth of the lithium dendrites is limited efficiently. The penetration through issue of the lithium dendrites will not be occurred so that the safety of the lithium metal battery is improved greatly.

Figure 5