

LITHIUM-IRON DISULFIDE CYLINDRICAL CELL WITH MODIFIED POSITIVE ELECTRODE

Abstract

A primary electrochemical cell, and a method for making the same, relies upon a jellyroll electrode with a positive electrode material deposited on a conductive carrier having partially uncoated portion wherein electrochemically active material is coated on only one side of the carrier in order to achieve superior performance in comparison to a cell having no such uncoated portion. The partially uncoated portion is oriented along a longitudinal axis of the jellyroll. The positive electrode material is preferably iron disulfide, whereas the negative electrode comprises lithium or a lithium alloy.

(Figure 4A)