

Title (en)

Electrodes, electro-chemical cells containing said electrodes, and process for forming and utilizing such electrodes.

Title (de)

Elektroden, elektrochemische Zellen mit diesen Elektroden und Verfahren zur Ausbildung und Verwendung solcher Elektroden.

Title (fr)

Electrodes, cellules électro-chimiques contenant ces électrodes et procédés pour former et utiliser de telles électrodes.

Publication

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Application

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Priority

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Abstract (en)

The invention includes electrodes having a plurality of fibers wherein an essentially continuous metallic coating of high bond strength extends over at least a portion of each fiber, and wherein the fibers provide a large surface area. The electrodes of the invention have an efficient electrical connection at their terminals comprising fiber/metal matrices which provide the desired connections to the terminals without damage to the fibers. The fiber metal matrices also provide excellent electrical contact between all of the fibers, and inhibit wicking of the electrolyte or process stream into the electrical connections. Where the fibers are coated along a substantial portion of their length, they also have a high electrical conductivity. The invention further includes electro-chemical cells, and processes for forming and utilizing the electrodes and cells.

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