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(54) Title: CARBON COATED ELECTRODES

(57) Abstract: An electrode for electrochemical applications is coated with a layer of a-C, wherein the layer of a-C comprises at least 10 each of first and second sub-layers, being • (i) first sub-layers having high conductivity with a sp² content of 60-95%, alternating with • (ii) second sub-layers having high corrosion resistance with a sp² content of 50-90%, wherein the sp² content of the first sub-layers is at least 3% greater than the sp² content of the second sub-layers. A method of making such electrodes comprises: • a) depositing a first sub-layer comprising a-C, • b) depositing a second sub-layer comprising a-C wherein the sp² content of the first sub-layer is at least 3% greater than the sp² content of the second sub-layer, and • c) repeating the steps above to deposit at least 10 first sub-layers alternating with 10 second sub-layers, so as to produce the electrodes.



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