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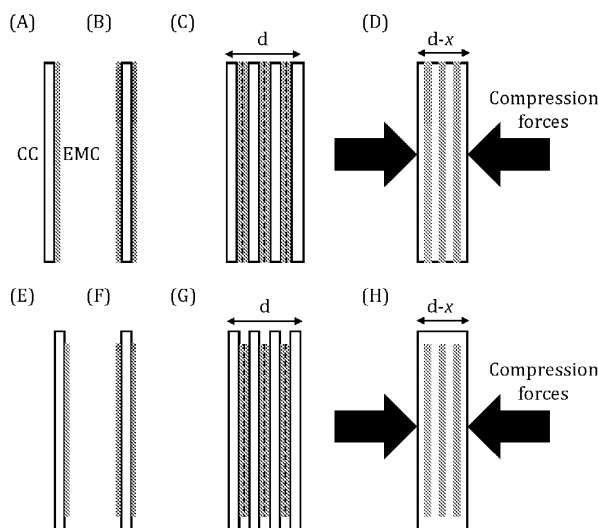


Figure 1

(57) Abstract: The present disclosure concerns an electrode comprising a plurality of porous conductive substrates and at least one layer of an electrode composite material, the at least one layer of electrode composite material is sandwiched between the plurality of porous conductive substrates, the at least one layer of electrode composite material in electrical communication with the plurality of porous conductive substrates. The electrode composite material at least partially impregnates the plurality of porous conductive substrates. The present disclosure also concerns joints and methods of fabricating the electrodes and joints.

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