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(54) Title: CORROSION PROTECTION FOR METALLIC SUBSTRATES

(57) Abstract: A composition suitable for coating a metallic substrate that is susceptible to corrosion is disclosed. The composition comprises a carrier medium, 2D material/graphitic platelets, and one or both of conductive carbon black particles and carbon nanotubes, in which the 2D material/graphitic platelets comprise nanoplates of one or more 2D materials and/or nanoplates of one or more layered 2D materials and/or graphite flakes in which the graphite flakes have one nanoscale dimension and 25 or less layers, the conductive carbon black particles have a mean particle size in the range of 1 nm to 1000 nm, and the carbon nanotubes are single or multiwalled.

