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(54) Title: COATING COMPOSITIONS COMPRISING BISMUTH-ALLOYED ZINC

(57) Abstract: The present application discloses (i) a coating composition comprising a particulate zinc-based alloyed material, said material comprising 0.05-0.7% by weight of bismuth (Bi), the D₅₀ of the particulate material being in the range of 2.5-30 µm; (ii) a coated structure comprising a metal structure having a first coating of the zinc-containing coating composition applied onto at least a part of the metal structure in a dry film thickness of 5-100 µm; and an outer coating applied onto said zinc-containing coating in a dry film thickness of 30-200 µm; (iii) a particulate zinc-based alloyed material, wherein the material comprises 0.05-0.7%(w/w) of bismuth (Bi), and wherein the D₅₀ of the particulate material is in the range of 2.5-30 µm; (iv) a composite powder consisting of at least 25%(w/w) of the particulate zinc-based alloyed material, the rest being a particulate material consisting of zinc and unavoidable impurities; and (v) a composite powder consisting of the particulate zinc-based alloyed material and up to 30%(w/w) of one or more additives.



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