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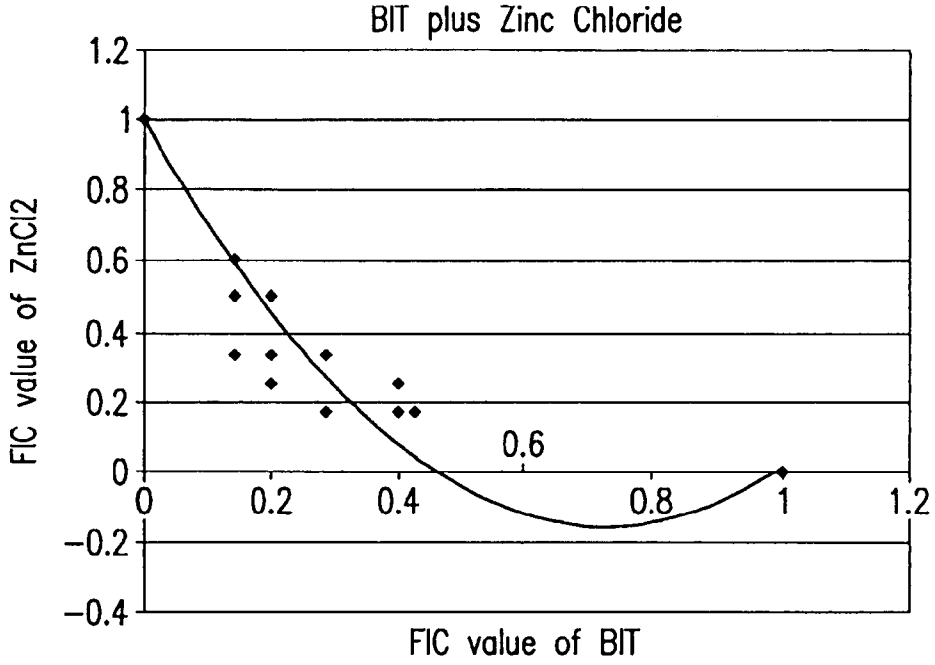
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[Continued on next page]

(54) Title: ISOTHIAZOLINONE BIOCIDES ENHANCED BY ZINC IONS



(57) Abstract: The present invention relates to an antimicrobial composition comprising an isothiazolinone, such as 1,2-benzisothiazolin-3-one, and a zinc compound selected from zinc salts, zinc oxides, zinc hydroxides or combinations thereof. Useful zinc salts include for example, oxides, sulfates, chlorides, and combinations thereof. In use, the zinc from the zinc compound enhances the antimicrobial activity to the isothiazolin-containing composition. This enhancement permits achieving the desired antimicrobial activity at a lower usage rate than is achieved using the isothiazolinone in the absence of the zinc compound. The antimicrobial composition can also contain co-biocides, such as pyrithiones, including zinc pyrithione or copper pyrithione.

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