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[54] **INSECTICIDE RESISTANCE ASSOCIATED CYTOCHROME 450**

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[58] Field of Search 435/320.1, 252.3, 435/252.33, 252.34, 254.11, 252.31, 189, 172.3; 536/23.2

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[57] **ABSTRACT**

Disclosed are microbial cells useful for degrading insecticides and chlorinated organics and for the production of a protein which degrades insecticides and chlorinated organics, which microbial cells contain and express a heterologous DNA molecule encoding an insect detoxication protein (e.g., an esterase, a cytochrome p450, a glutathione transferase). Preferably, the host cell is a bacteria which grows in soil (e.g., is from the genera *Pseudomonas* or *Bacillus*). Methods of using the cells and proteins and compositions thereof are also disclosed.

8 Claims, No Drawings