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(54) Title: HETEROGENEOUS BIMETALLIC PALLADIUM-GOLD CATALYST FOR VINYL ACETATE PRODUCTION

(57) Abstract

This invention provides a heterogeneous bimetallic palladium-gold catalyst for vinyl acetate production from ethylene, acetic acid and oxygen. An invention catalyst is prepared by forming a first shell dispersion coating of colloidal palladium on the catalyst support surface, and super-imposing a second shell dispersion coating of colloidal gold metal on the catalyst support surface. An organometallic gold compound is employed to apply the gold dispersion on the catalyst support surface. The organometallic gold compound does not require a fixing procedure. A preferred invention palladium-gold catalyst has a high gold metal retention, and exhibits durability and long term selectivity in vinyl acetate production.