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(54) Title: VINYL ACETATE CATALYST COMPRISING METALLIC PALLADIUM AND GOLD AND PREPARED UTILIZING SONICATION

(57) Abstract: A catalyst effective for the production of vinyl acetate by reaction of ethylene, oxygen and acetic acid, comprising a porous support on the porous surfaces of which is deposited catalytically effective amounts of metallic palladium and gold, and prepared by steps comprising impregnating the support with one or more aqueous solutions of water-soluble compounds of the metals, fixing the metals on the support as water-insoluble compounds in one or more fixing steps by reaction with an appropriate alkaline compound, and reducing the water-insoluble compounds of the catalytically active metals to their free metallic form in one or more reducing steps, at least one of said reducing steps being carried out in an aqueous medium containing a reducing agent dissolved therein or through which a gaseous reducing agent is bubbled, and in which the support containing the fixed water-insoluble metal compounds is immersed, while sonicating, i.e., applying ultrasound waves to, such aqueous medium.