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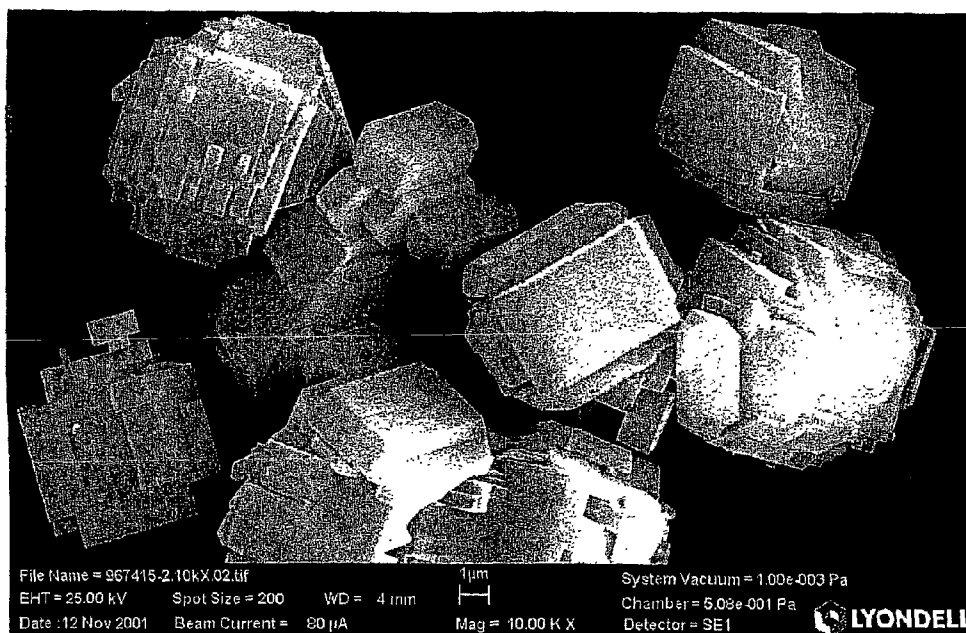
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(54) Title: PROCESS FOR DIRECT OXIDATION OF PROPYLENE TO PROPYLENE OXIDE AND LARGE PARTICLE SIZE
TITANIUM SILICALITE CATALYSTS FOR USE THEREIN



(57) Abstract: Large crystals of titanium silicalite or intergrowths of intergrown smaller crystals, having a mean particle size greater than 2 µm, have been found catalytically effective at commercially reasonable rates for the epoxidation of olefins in the presence of hydrogen peroxide. Crystals synthesized with a silica source having a low sodium content exhibit high levels of production and selectivity. The crystals have a low attrition rate and are easily filterable from a product stream.

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