St. Louis - General Offices

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Wm. Grosse, B-2-S
F. H. L.
G. R. B.

AROCLOR - REACTION INHIBITOR

Neal E. Willis
Patent Dept. E-135-N

Please consider possible patent for Aroclor as catalytic reaction inhibitor.

Halogenated hydrocarbons inhibit various types of catalytic reactions. In some instances this can be highly desirable, useful and in fact essential.

In other cases it can be pernicious. For example a little Aroclor leakage from the heat-transfer system used in hydrogenating terphenyl promptly poisons the nickel formate or nickel catalyst reducing production rates.

On the other hand coating various catalyst beds with a film of Aroclor, usually resinous Aroclor such as 5460 or 4465 creates a needed catalyst inhibition to carry out various reactions. An example is catalyst inhibition in the controlled production of ethylene oxide. Here a gas mixture consisting of ethylene, ethane, methane, argon, oxygen, nitrogen and carbon dioxide are swept over the hot catalyst bed to form ethylene oxide. Unless the catalyst bed is coated with Aroclor, the reaction gets out of hand.

No doubt there are many other possible applications for Aroclor along these lines.

The question is whether one can patent this as a general concept or whether it would be required to set forth the specific details for each possible situation.

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I don't see how we could explore individual cases, but thought you might wish to explore the thing in a general way.

If there is no area of protection to seek, then we should have Bill Grosse pass this use along now in his general suggestions for selling more Aroclor.

P. G. Benignus

/kd

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