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(54) Title: AMELIORATION OF AMMONIA BREAKTHROUGH IN AN ALKANE AMMOXIDATION PROCESS

(57) Abstract: The invention is a method for the reduction of ammonia breakthrough during the manufacture of acrylonitrile comprising introducing a hydrocarbon selected from the group consisting of propane and isobutane; ammonia and an oxygen-containing gas into a lower portion of a fluid-bed reactor containing an ammoxidation catalyst to react in the presence of said catalyst to produce acrylonitrile. The method comprises introducing into the reactor at least one C₂ to C₅ olefin which will react with at least a portion of the unreacted ammonia and oxygen present in the reactor to substantially reduce the amount of ammonia present in the reactor effluent exiting the reactor.

WO 02/12174 A1