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(54) Title: PROCESS FOR PRODUCING α,β -UNSATURATED NITRILE			
(57) Abstract A process for producing an α,β-unsaturated nitrile, the process comprising the step of: reacting (1) a hydrocarbon selected from an olefin selected from propylene and isobutylene, a paraffin selected from propane and butane, and tertiary butyl alcohol, (2) ammonia, and (3) an oxygen-containing gas, in a reactor at a high temperature in a gas phase over a fluidized bed, so as to prepare an α,β-unsaturated nitrile having the same number of carbon atoms as the hydrocarbon as a starting material, the reactor comprising a reactor vessel having therein, from a bottom of the reactor vessel, an oxygen-containing gas dispersing plate or pipe and a mixed gas dispersing pipe for dispersing a mixed gas of the hydrocarbon and the ammonia, a pressure loss in the oxygen-containing gas dispersing plate or pipe is controlled to the range of from 0.6 to 3.0 times a pressure loss in the fluidized bed.			