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(54) Title: PROCESS FOR PRODUCING SPHERICAL CATALYST PARTICLES, CATALYST PARTICLES AND THEIR USE IN A CHEMICAL SYNTHESIS

(57) Abstract

Process for producing spherical catalyst particles containing a zeolite as active element, according to which a sol containing zeolite crystals and at least one gel–forming compound is sprayed from below directly into a reaction zone containing a reaction gas such that the sol breaks up into individual sol beads immediately before or upon entry into the reaction zone, the sol beads flow through the reaction zone on a curved trajectory, in so doing are pre–consolidated and the sol beads are collected on a collecting means.