

Title (en)
PROCESS AND SYSTEM FOR PREPARING A TARGET COMPOUND

Title (de)
VERFAHREN UND ANLAGE ZUR HERSTELLUNG EINER ZIELVERBINDUNG

Title (fr)
PROCÉDÉ ET SYSTÈME DE PRÉPARATION D'UN COMPOSÉ CIBLE

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Application
EP 22712938 A 20220314

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Abstract (en)
[origin: CA3212562A1] The invention relates to a process for preparing a target compound, wherein a charge mixture (A) at a temperature in a first temperature range is distributed over a plurality of parallel reaction tubes (10) of a tube-bundle reactor (100); undergoes heating to a temperature in a second temperature range in first tube portions (11) of the reaction tubes (10); and undergoes an oxidative catalytic conversion in second tube portions (12) of the reaction tubes (10), downstream of the first tube portions (11), using one or more catalysts situated in the second tube portions (12). The invention is characterised in that, in third tube portions (13) situated downstream of the second tube portions (12), a gas mixture flowing out of the second tube portions (12) is brought into contact with a catalyst situated in the third tube portions (13), which catalyst has a volumetric activity that is below the highest volumetric activity of the one or more catalysts situated in the second tube portions (12), and wherein a gas mixture flowing out of the third tube portions (13) is removed from the tube-bundle reactor (100) without additional catalytic conversion. The invention also relates to a corresponding system.

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