

Title (en)
METHOD AND FACILITY FOR PRODUCING A TARGET COMPOUND

Title (de)
VERFAHREN UND ANLAGE ZUR HERSTELLUNG EINER ZIELVERBINDUNG

Title (fr)
PROCÉDÉ ET INSTALLATION POUR LA PRODUCTION D'UN COMPOSÉ CIBLE

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Application
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Abstract (en)
[origin: CA3147857A1] The invention relates to a method (100) for producing a target compound, wherein a paraffin is subjected to an oxidative dehydrogenation process (1) using oxygen, thereby obtaining an olefin, and the olefin is subjected to a hydroformylation process (2) using carbon monoxide, thereby obtaining an aldehyde. The paraffin and the olefin have a carbon chain with a first carbon number, and the aldehyde has a carbon chain with a second carbon number which is greater than the first carbon number by one. According to the invention, carbon dioxide is formed as a byproduct during the oxidative dehydrogenation process (1), the carbon dioxide is subjected to a dry reformation process (3) at least partly using methane, thereby obtaining carbon monoxide and hydrogen, and the carbon monoxide obtained in the dry reformation process (3) and/or the hydrogen obtained in the dry reformation process (3) is supplied to the hydroformylation process (2). The invention likewise relates to a corresponding facility.

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