

Title (en)
PRODUCING ETHYLENE BY OXIDATIVELY DEHYDROGENATING ETHANE

Title (de)
HERSTELLUNG VON ETHYLEN DURCH OXIDATIVE DEHYDRIERUNG VON ETHAN

Title (fr)
PRODUCTION D'ÉTHYLÈNE PAR DÉSHYDROGÉNATION OXYDATIVE D'ÉTHANE

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Application
EP 22713953 A 20220314

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Abstract (en)
[origin: CA3212330A1] The invention relates to a method for producing ethylene by oxidatively dehydrogenating ethane, wherein a multitubular reactor (10) having reaction tubes (11) which extend between a first end (11A) and a second end (11B) is used. One or more catalyst beds are disposed in each of the reaction tubes (11). In each of the reaction tubes (11), the ratio of the total length of the one or more catalyst beds between the first end (11A) and the second end (11B) to the diameter of each of the reaction tubes (11) has a value between 150 and 400. The multitubular reactor (10) is operated at a linear velocity of 250 to 800 cm/s, and the one or more catalyst beds are designed such that the ratio of active catalyst mass to effective cooling surface lies in a range between 1.5 and 5 kg/m². The invention also relates to a corresponding plant (100).

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