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WO 2023/194526 A1

(54) Title: A ZONED REACTOR FOR THE REFORMING OF NH₃

(57) Abstract: The present invention relates to an adiabatic, zoned reactor for the reforming of NH₃ to N₂ and H₂, the reactor particularly comprising n reaction zones arranged in sequence and extending along the axial length L of the reactor, wherein n is an integer in the range of from 2 to 5, wherein independently from one another, each of the n reaction zones comprises one or more catalytic components, wherein from the inlet reaction zone to the outlet reaction zone each reaction zone displays a lower light-off temperature T₅₀ in the reforming of NH₃ to N₂ and H₂ than the subsequent downstream one. Further, the present invention relates to a production unit comprising said reactor, a process for the reforming of NH₃ to N₂ and H₂, and use of said reactor and said production unit.