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(54) Title: CATALYST AND PROCESS FOR THE PREPARATION OF HYDROCARBONS

(57) **Abstract**: The invention provides a process for the production of mainly C₅+ hydrocarbons comprising contacting carbon monoxide and hydrogen at a temperature in the range of from 180 to 270 °C and elevated pressure in the presence of a catalyst composition comprising cobalt, manganese and at least one of rhenium and/or ruthenium on a titania carrier, a catalyst composition comprising cobalt, manganese and rhenium on a titania carrier.