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WO 02/100541 A1

(54) Title: HIGH-MACROPORE HYDROPROCESSING CATALYST AND ITS USE

(57) Abstract: The present invention pertains to a catalyst comprising 7-20 wt.% of a Group VIB metal component, calculated as trioxide on the weight of the catalyst, and 0.5 to 6 wt.% of a Group VIII metal component, calculated as oxide on the weight of the catalyst, on a porous inorganic carrier, said catalyst having a specific surface area of 100-180 m^2/g, a total pore volume of at least 0.55 ml/g, at least 50% of the total pore volume in pores with a diameter of at least 20 nm (200 Å), and 10-30% of the total pore volume in pores with a diameter of at least 200 nm (2000 Å), and 0-1% of the total pore volume in pores with a diameter above 100 nm (1000 Å). The catalyst is particularly suitable for the hydroprocessing of heavy hydrocarbon feeds of which at least 50 wt.% boils above 538 °C (1000 °F). It is especially advantageous for the hydroprocessing of feedstocks of which at least 80 wt.% boils above 538 °C (1000 °F).