ABSTRACT OF INVENTION

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(54) CATALYST FOR PROCESSING HEAVY OILS AND ITS PREPARATION METHOD

(57) Abstract:
FIELD: oil industry.
SUBSTANCE: invention relates to a catalyst for processing heavy oils containing nickel and molybdenum applied on the gamma-aluminium oxide modified with chromium, the content of which varies within the range of 0.01-15 wt%. Invention also relates to a method for preparation of the said catalyst, according to which gamma-aluminium oxide is modified by introduction of chromium Cr additive, which enables to obtain a carrier with the composition of Cr/Al$_2$O$_3$, then the phases of nickel and molybdenum are applied in series on the modified carrier, first impregnate with molybdenum Mo precursor in excess of the solvent, afterwards the impregnation is nickel Ni, and the obtained catalyst of the NiMo/Cr/Al$_2$O$_3$ composition is dried and calcined. Catalysts are mesoporous materials having relatively high specific surface.

EFFECT: technical result is the increase of hydrocracking activity of catalysts.

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