

RUSSIAN FEDERATION

FEDERAL SERVICE
FOR INTELLECTUAL PROPERTY(51) Int. Cl.
C10G 9/36 (2006.01)(12) **ABSTRACT OF INVENTION**(52) CPC
C10G 9/36 (2022.01)(21)(22) Application: **2021120558, 12.07.2021**(24) Effective date for property rights:
12.07.2021Registration date:
01.12.2022Priority:
(22) Date of filing: **12.07.2021**(45) Date of publication: **01.12.2022** Bull. № 34Mail address:
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Maratovich (RU), Trofimov Petr Petrovich (RU)**(54) **METHOD FOR THERMO-OXIDATIVE CRACKING OF HYDROCARBON RAW MATERIALS**

(57) Abstract:

FIELD: chemistry.

SUBSTANCE: invention relates to methods for hydrocarbon cracking. Described is a method for thermo-oxidative cracking of hydrocarbons, including the stages of supplying a preheated flow of hydrocarbon raw materials to the reactor, circulating the liquid hydrocarbon raw materials in the circuit through an apparatus with discharge of the non-distillable cracking residue of the hydrocarbon raw materials, a pump, and

a reactor fuelled by the hydrocarbon raw materials, with upper discharge of the vapour-gas mixture for condensation or rectification; wherein oxygencontaining gas is fed to the pump with circulating liquid hydrocarbon raw materials.

EFFECT: simplified method for hydrocarbon cracking without intensive coke production and with reduced output of gaseous products.

1 cl, 3 dwg

RU 2784941 C1

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