

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
04 March 2021 (04.03.2021)



(10) International Publication Number
WO 2021/038434 A1

(51) International Patent Classification:

B01J 21/12 (2006.01) *B01J 37/08* (2006.01)
B01J 27/20 (2006.01) *C07C 11/167* (2006.01)
B01J 21/18 (2006.01) *C07C 33/025* (2006.01)
B01J 35/02 (2006.01) *B01J 23/10* (2006.01)
B01J 37/03 (2006.01)

(21) International Application Number:

PCT/IB2020/057922

(22) International Filing Date:

25 August 2020 (25.08.2020)

(25) Filing Language:

Italian

(26) Publication Language:

English

(30) Priority Data:

102019000015069 27 August 2019 (27.08.2019) IT

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(81) Designated States (*unless otherwise indicated, for every
kind of national protection available*): AE, AG, AL, AM,
AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ,
CA, CH, CL, CN, CO, CR, CU, CZ, DE, DJ, DK, DM, DO,
DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN,
HR, HU, ID, IL, IN, IR, IS, IT, JO, JP, KE, KG, KH, KN,
KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD,

(54) Title: CATALYST COMPRISING COKE AND PROCESS FOR THE PRODUCTION OF DIENES

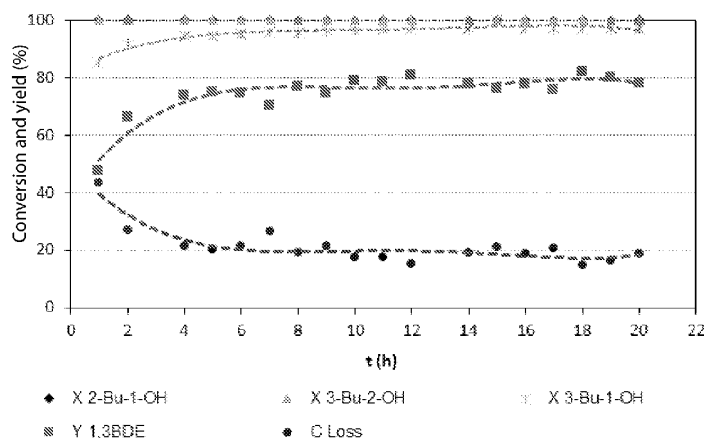


Figure 1

(57) Abstract: The present invention relates to a catalyst comprising coke characterised in that said coke, upon analysis by infrared spectroscopy in diffuse reflection ("Diffuse Reflectance Infrared Fourier Transform Spectroscopy" - DRIFTS), has at least two peaks at a wavelength comprised between 1450 cm^{-1} and 1700 cm^{-1} . The aforesaid catalyst comprising coke can be advantageously used in a process for the production of a diene, preferably a conjugated diene, more preferably 1,3-butadiene, said process comprising the dehydration of at least one alkenol having a number of carbon atoms greater than or equal to 4. Preferably, said alkenol having a number of carbon atoms greater than or equal to 4 can be obtained directly from biosynthetic processes, or through catalytic dehydration processes of at least one diol. When said alkenol is a butenol, said diol is preferably a butanediol, more preferably 1,3-butanediol, even more preferably bio-1, 3- butanediol, i.e. 1,3-butanediol deriving from biosynthetic processes. When said diol is 1,3-butanediol, or bio-1, 3-butanediol, the diene obtained with the process according to the present invention is, respectively, 1,3-butadiene, or bio-1, 3-butadiene.

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ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO,
NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW,
SA, SC, SD, SE, SG, SK, SL, ST, SV, SY, TH, TJ, TM, TN,
TR, TT, TZ, UA, UG, US, UZ, VC, VN, WS, ZA, ZM, ZW.

(84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, ST, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN, TD, TG).

Published:

- with international search report (Art. 21(3))
- in black and white; the international application as filed contained color or greyscale and is available for download from PATENTSCOPE