

Title (en)
GASOLINE PRODUCTION BY OLEFIN POLYMERIZATION

Title (de)
BENZINHERSTELLUNG MITTELS OLEFINPOLYMERISATION

Title (fr)
PRODUCTION D'ESSENCE PAR POLYMERISATION D'OLEFINE

Publication
EP 1856009 A4 20120104 (EN)

Application
EP 06736479 A 20060228

Priority

- US 2006007168 W 20060228
- US 65695405 P 20050228
- US 36225706 A 20060227

Abstract (en)
[origin: WO2006094006A2] Solid phosphoric acid (SPA) olefin oligomerization process units may be converted to operation with a more environmentally favorable solid catalyst. The SPA units in which a light olefin feed is oligomerized to form gasoline boiling range hydrocarbon product, is converted unit to operation with a molecular sieve based olefin oligomerization catalyst comprising an MWW zeolite material. Besides being more environmentally favorable in use, the MWW based zeolites offer advantages in catalyst cycle life, selectivity and product quality. After loading of the catalyst, the converted unit is operated as a fixed-bed unit by passing the C₂-C₄ olefinic feed to a fixed bed of the MWW zeolite condensation catalyst, typically at a temperature from 150 to 250°C, a pressure not greater than 7000 kPag, usually less than 4000 kPag and a space velocity up to 30 WHSV. The gasoline boiling range product is notable for a high level of branched chain octenes resulting in high octane quality.

IPC 8 full level
C07C 2/02 (2006.01)

CPC (source: EP)
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Citation (search report)

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- [XY] EP 0159848 A1 19851030 - MOBIL OIL CORP [US]
- [XY] US 4919896 A 19900424 - HARANDI MOHSEN N [US], et al
- [XY] WO 9522516 A1 19950824 - EXXON CHEMICAL PATENTS INC [US], et al
- [XP] WO 2005118512 A1 20051215 - EXXONMOBIL CHEM PATENTS INC [US], et al
- See references of WO 2006094006A2

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