

Title (en)  
Process for producing lubricating base oils

Title (de)  
Verfahren zur Herstellung von Schmierölen

Title (fr)  
Procédé pour la production d'huiles lubrifiantes

Publication  
**EP 0776959 A2 19970604 (EN)**

Application  
**EP 96203362 A 19961128**

Priority  
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Abstract (en)  
Process for the preparation of lubricating base oils having a VI of at least 150 from a Fischer-Tropsch wax feed, which process comprises the steps of: (a) contacting the Fischer-Tropsch wax feed with a hydroconversion catalyst under hydroconversion conditions, (b) separating the hydroconverted effluent obtained in step (a) into at least one lighter fraction and a heavy fraction, and (c) dewaxing the heavy fraction to yield the base oil, wherein the Fischer-Tropsch wax feed has a congealing point of at least 50 DEG C and has such boiling range that the difference between the 90 %wt boiling point and the 10 %wt boiling point (T90-T10) is in the range of from 40 to 150 DEG C.

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IPC 8 full level  
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**C10G 65/043** (2013.01); **C10G 67/04** (2013.01); **C10G 2400/10** (2013.01)

Citation (applicant)  
• EP 0515256 A1 19921125 - INST FRANCAIS DU PETROLE [FR]  
• US 4943672 A 19900724 - HAMNER GLEN P [US], et al  
• US 5059299 A 19911022 - CODY IAN A [CA], et al  
• WO 9410264 A1 19940511 - ICI PLC [GB], et al  
• EP 0582347 A1 19940209 - ENIRICERCH SPA [IT]  
• WO 9220759 A1 19921126 - EXXON RESEARCH ENGINEERING CO [US]  
• WO 9201657 A1 19920206 - CHEVRON RES & TECH [US]

Cited by  
EP1630221A1; EP1630222A1; AU2004281378B2; US9347007B2; CN100378202C; AU2003286541B2; FR2805542A1; FR2851569A1; US6165949A; EP1548088A1; US6962651B2; AU2004200877B2; GB2371806A; GB2371806B; AU781716B2; NL1015036C2; ES2185445A1; FR2792946A1; CZ303313B6; AU2005201627B2; EP0921184A1; AU2004288897B2; US8137531B2; EP1550709A1; FR2792945A1; NL1015035C2; ES2190303A1; EP1054942A4; US7198710B2; AU2004200668B2; AU2003300256B2; AU2002253100B2; FR2805543A1; US6090989A; AU2004200668C1; EA008662B1; EP1029029A4; EP1559770A3; EP1627906A1; EP1624040A3; EP1626080A3; EP1632548A3; EP1632549A3; SG152046A1; US6080301A; AU749136B2; EP1568755A3; WO2004033606A1; WO2004009699A1; WO2004033590A3; JP2006249408A; JP2012180532A; EP1272592B1; JP2013014787A; JP2006241436A; WO9932581A1; WO2005037964A3; WO0014179A1; WO20070627A3; WO2004053030A3; WO2009080679A1; WO2005063940A1; WO2004081153A3; WO2004009738A1; WO2005017077A3; WO2005047424A3; WO03033622A1; WO2009083714A3; WO2004033597A3; JP2006241437A; EP2159275A2; US7083713B2; US8076525B2; WO2015071160A1; WO2016184842A1; WO2022106519A1; EP4119640A1; US11639481B2; EP1947164A1; US7282137B2; US6699385B2; WO2013189953A1; WO2016156328A1; WO2020099078A1; WO2020194543A1; US7510674B2; EP2071008A1; US11453837B2; US6315891B1; WO2010094681A1; WO2015193395A1; US9434881B1; WO2018033449A1; US10040884B2; WO2018192924A1; US10329366B2; US7485353B2; WO2022129495A1; WO2004053027A1; WO20070629A1; WO20070630A1; WO20070636A1; WO20070631A3; WO2004081154A3; WO2009156393A1; WO2006122979A2; WO2006069990A1; US6602402B1; WO2011113851A1; WO2012163935A2; US9206379B2; WO2016124653A1; WO2017050777A1; US10752859B2; WO2020194551A1; US10808195B2; US7655134B2; WO2006053893A1; EP1666569A2; US7354508B2; US7345106B2; US7727376B2; US7763161B2; US7837853B2; WO2014001546A1; US8702968B2; US8882989B2; US9809760B2; US7261806B2; EP2194114A2; WO2011023766A1; US8152869B2; WO2013093103A1; EP2695932A1; US8633142B2; WO2012017023A1; WO2015172846A1; WO2016032782A1; US10144896B2; EP3498808A1; US10294436B2; WO2020007945A1; US10920164B2; US7550415B2; WO2023099630A1; US7087152B2; US7795317B2; EP2385097A1; DE112011103622T5; WO2015097152A1; EP3450527A1; US10731097B2; WO2020194548A1; WO2021079976A1; WO2023167307A1; US11946012B2; EP2100946A1; US7462209B2; EP2186871A1; EP2746367A1; US8986631B2; WO2018114673A1; US11078430B2; WO2022049130A1; US7550635B2; WO2023099631A1; WO2023099635A1; WO2023222677A1; WO2024033156A1; US12104137B2; US7642294B2; US7670476B2; US7704379B2; US7846882B2; EP2395068A1; WO2012017023A1; US8273137B2; EP2626405A1; US8658579B2; WO2016097A1; WO2015063213A1; EP3006545A1; US9896632B2; WO2018115284A1; WO2020194547A1; US10934496B2; WO2022003087A1; US7517916B2; EP2078743A1; US11603425B2; WO2006132964A2; US7252753B2; US7195706B2; US7141157B2; US6703353B1; US7067049B1; WO2010086365A1; EP2363453A1; EP2366763A1; EP2366764A1; US8221614B2; US8486876B2; US9068106B1; WO2016135036A1; EP3315586A1; WO2018078021A1; EP3336162A1; WO2019145307A1; WO2020194544A1; US11180712B2; US11680196B2; US7638037B2; WO2008002425A1; EP1686164A2; US7285693B2; US7018525B2; US7125818B2; WO0014184A2; US6179994B1; US6332974B1; US7741258B2; US7981270B2; EP2604676A1; US9206374B2; EP3315592A1; WO2018078023A1; US10160927B2; WO2020187954A1; US11066589B2; WO2022058095A1; WO2009090238A1; EP4321602A1; US11981854B2; US7077947B2; US7429318B2; US7144497B2; US7300565B2; US7250107B2; US6475960B1; WO2010149706A1; US7875166B2; WO2011080250A1; US8349776B2; WO2014020007A1; US9222049B2; EP3040404A1; EP3095842A1; US9556396B2; US10189975B2; WO2019145287A1; US10669506B2; EP3778839A1; EP2075314A1; WO2024120926A1; WO2007133554A2; US6951605B2; EP1626080A2; US7497941B2; US6420618B1; EP1652904A1; US7795191B2; DE112008002257T5; US7815789B2; WO2010149712A1; EP2298855A1; WO2011076948A1; US8968592B1; EP3342842A1; WO2018127458A1; WO2019012031A1;

WO2019145298A1; WO2020194550A1; WO2021197968A1; US11198833B2; US11248179B2; WO2023247624A1; WO2011042552A1; WO2011051261A1; WO2011138313A1; US8152868B2; WO2013093080A1; WO2017013257A1; WO2017093203A1; WO2018041755A1; WO2018131543A1; US10227543B2; US10407640B2; WO2020126494A1; US11015139B2; US11155768B2; WO2021219679A1; WO2021219686A1; WO2023099632A1; WO2023099634A1; US11959033B2; US12065526B2; US7670996B2; US7282134B2; US7220350B2; EP2189515A1; US7727378B2; EP2248878A1; WO2011054909A1; EP2441818A1; US8329624B2; US8530686B2; WO2013189951A1; EP2816098A1; US9012380B2; US9096811B2; WO2016166135A1; WO2017194654A1; US10385288B1; WO2019206999A1; WO2020011948A1; WO2020194546A1; US11142705B2; WO2022003088A1; US7531081B2; US11499117B2; US11591539B2; EP1029029A1

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