

Title (en)

SCREW REACTOR FOR TRANSFORMING LONG MOLECULAR CHAIN ORGANIC MATTER

Title (de)

SCHNECKENREAKTOR ZUR UMWANDLUNG VON ORGANISCHEM MATERIAL MIT LANGER MOLEKÜLKETTE

Title (fr)

RÉACTEUR À VIS POUR LA TRANSFORMATION DE MATIÈRE ORGANIQUE À LONGUE CHAÎNE MOLÉCULAIRE

Publication

EP 2560806 A1 20130227 (EN)

Application

EP 10722784 A 20100421

Priority

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Abstract (en)

[origin: WO2011132210A1] Apparatus for the transformation of long molecular chain organic matter, comprising at least one chamber (2) that has at least one conduit (3) inside it which is interposed between at least one inlet (4a), for the introduction into the conduit (3) of long molecular chain organic matter, and at least one outlet (4b), for the expulsion of short molecular chain organic mixtures, obtained from the transformation of the long chain organic matter. At least one active portion (3 a) of the conduit (3) is delimited by respective surfaces of at least one pair of rotors (5), arranged at least partly side by side inside the chamber (2). At the active portion (3a) the simultaneous rotation of the rotors (5) subjects the long molecular chain organic matter to mechanical stresses, with consequent increase, owing to friction, of the temperature and of the internal pressure, for the breakage of the long molecular chains.

IPC 8 full level

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CPC (source: EP US)

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Citation (search report)

See references of WO 2011132210A1

Citation (examination)

US 7244060 B2 20070717 - INOUE KIMIO [JP], et al

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