

Title (en)

PROCESS AND APPARATUS FOR ATOMIZING FCC FEED OIL

Title (de)

VERFAHREN UND VORRICHTUNG ZUR ZERSTÄUBUNG VON FCC-ÖL (FLUIDKATALYTISCHEM KRACKÖL)

Title (fr)

PROCEDE ET APPAREIL PERMETTANT D'ATOMISER UNE HUILE D'ALIMENTATION DE CRAQUAGE CATALYTIQUE FLUIDE

Publication

**EP 1169093 A1 20020109 (EN)**

Application

**EP 00916441 A 20000317**

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- US 27181399 A 19990318
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- US 52657600 A 20000316

Abstract (en)

[origin: WO0054845A1] A liquid atomization process comprises forming a two-phase fluid mixture of a liquid and a gas, under pressure, dividing the fluid into two separate streams which are passed into and through an impingement mixing zone (22) in which they are impingement mixed to form a single stream of two-phase fluid. The mixed, single stream is then passed into and through a shear mixing zone (24) and then into a lower pressure expansion zone (30), in which atomization occurs to form a spray of atomized drops of the liquid. The impingement (22) and shear (24) mixing zones comprise respective upstream (16) and downstream (18) portions of a single fluid passageway (14) in a nozzle (10). This is useful for atomizing the hot feed oil in an FCC process.

IPC 1-7

**A62C 5/02**; **F23D 14/68**

IPC 8 full level

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