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(71) Applicant (for all designated States except US): **INTER-CAT EQUIPMENT** [US/US]; Ramshorn Executive Center, Unit C, Suite C1, 2399 Highway 34, Manasquan, NJ 08736 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **EVANS, Martin** [GB/US]; 125 Anderson Road, Tolland, CT 06084 (US). **BROWN, Manfred William** [GB/GB]; 1 Tudor Gardens, Barnes London SW130JS (GB).

(74) Agent: **TABOADA, Keith**; Patterson & Sheridan, LLP, 595 Shrewsbury Ave., Shrewsbury, NJ 07702 (US).

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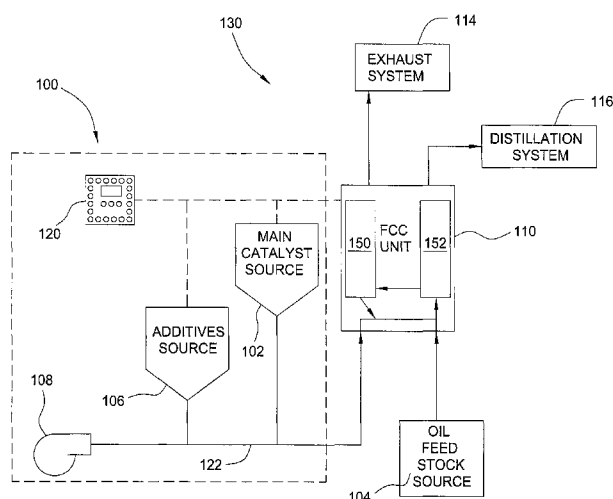
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(54) Title: FLUID CATALYTIC CRACKING SYSTEM WITH FINES ADDITION SYSTEM



(57) Abstract: A fines injection apparatus, a fluid catalytic cracking (FCC) system having a fines injection apparatus, and a method for using the same are provided. In one embodiment, a FCC system includes a FCC unit, a fines collector, and a fines injector coupled to the fines collector for retuning the fines recovered in the fines collector to the FCC unit. In another embodiment, an apparatus for injecting fines into a FCC system includes a fines separator coupled to an effluent stream and an injection apparatus coupled to a regenerator. A conduit is provided for delivering collected fines from the fines separator to the injection apparatus. In yet another embodiment, a method for injecting fines into FCC system includes collecting fines from a waste stream of a FCC system, automatically transferring the collected fines to a fines injection apparatus, and periodically injecting the transferred fines into the FCC system.