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Fcc Nozzle Technology Design Characterization U.S. Patent 4,650,566 is relevant in disclosing a nozzle system for blending oil and steam into the lower part of an FCC riser. Numerous other FCC feed nozzle designs are known in the art, as... EP0318185A1 - FCC feed nozzle design - Google Patents Although most of modern FCC units have the feed nozzles installed through riser shrouds at a fixed angle, a new feed nozzle design, shown in Fig. 1, enables an FCC unit to adjust the feed injection angle while using the existing riser shrouds. Recent advances in FCC technology - ScienceDirect One relatively inexpensive option that may be particularly attractive is an

innovation in fluidised catalytic cracking (FCC) feed nozzle technology, previously thought to be a mature technology. Recent developments here provide the opportunity to increase slurry oil conversion through better atomisation and to, therefore, reduce this heavy, high-sulphur stream, which traditionally goes to the marine fuel oil pool. How innovations in FCC feed nozzle technology needed. This paper reports on the design, measurement, and characterization of 0.5 MHz ultrasonic nozzles fabricated using MEMS technology in (001) silicon wafers. To the best of our knowledge, no ultrasonic nozzle at such a high frequency has ever been reported. As shown in Figure 1, the nozzle is

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Design Characterization And

composed of a

transducer Characterization of

Silicon-based Ultrasonic

Nozzles The test model consisted of

three clustered cell nozzle modules

or a nonclustered two-dimensional

nozzle with an exit Mach number of

3.5, followed by a straight section

and a contoured spike. The model

was exposed to an external flow of

Mach 2.0 to simulate off-design

transonic flight

conditions. Aerodynamic

Characterization of Linear Aerospike

Nozzles ... □ Robust design, long life

□ Simplest geometry for expansion

□ No cantilevered arms to avoid

oscillations and cyclic fatigue □

Nozzle design minimizes erosion

and attrition □ Special refractory

and anchor details Technip Stone &

Webster Process Technology FCC

Revamp ... The research scale foam generator was designed according to “NFPA 11 Standard for Low-, Medium-, and High-Expansion Foam” (). A picture of the conceptual device in NFPA 11 is shown in Fig. 1. The design also shares some similarities with aspects of previous foam generator patents, such as the position of the nozzle and screen and the use of a fan to generate airflow (Jamison and Barnes, 1965 ... Improved research-scale foam generator design and ... The technology was originally developed by Total as a cost-effective, flexible and reliable means to profit from market opportunities. This advanced FCC technology is offered to the market place through the FCC Alliance between Axens, IFP Energies

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Nouvelles, Total and

TechnipFMC. FCC -

Axens INVOLVING SPRAY

TECHNOLOGY. We're uniquely

qualified to assist: Many of our

showers and nozzles are specially-

designed for use in pulp, paper and

tissue mills. Our products are

optimized for transfer efficiency,

impact, precision, water

conservation, quick maintenance

and more. We have the most

comprehensive line of spray

products available, but Guide to

Spray Technology for the Pulp and

Paper Industry ... It uses the classic

Method of Characteristics (MOC)

technique to design a jet nozzle and

analyze the internal flow field, the

plume, and the external flow near

the nozzle exit. It can then

determine the interactions

between these three flow fields. We are making it available for beta testing among the nozzle team members. MOC Nozzle Simulator - NASA 7. FCC Catalyst Technology • Zeolite Cracking Catalysts • Catalyst Composition and Selectivity Effects. 8. FCC Catalyst Evaluation • Analytical Characterization • Performance Testing • Impact of Properties on FCCU Operation. 9. Advances In FCC Technology • New Feed Nozzle Designs • Advanced Riser Termination Devices FLUID CATALYTIC CRACKING PROCESS TECHNOLOGY ... selecting nozzles that operate well at the wanted frequency. The proposed silicon nozzle has a simple geometrical design and the fabrication process has high reproducibility which

results in less variation in performance from unit to unit. The batch fabrication with several nozzles per silicon wafer will also reduce the cost per unit. Fabrication and Characterization of Silicon Micromachines ... Fluid Catalytic Cracking Process Technology HYATT REGENCY NORTH HOUSTON HOUSTON, TEXAS USA MAY 8, 9, 10, 2017 ... presentations on FCC unit design, FCC process fundamentals, and new developments in the area of fluid catalytic cracking. ... • New Feed Nozzle Designs • Advanced Riser Termination Devices Fluid Catalytic Cracking Process Technology The thruster architecture was selected to use a linear cold gas nozzle design, which is an interesting geometry due to

its scalability. The nozzle had a length under 5 mm, and a designed throat width of 200 μ m. In practice, the actual throat width was close to 340 μ m. The cold gas nozzle was etched using a diode-pumped DPSS picosecond laser ... Bimodal Propulsion System for Small Spacecraft: Design ... and Process Characterization of FCCU's using Gamma Ray and Tracer Technology. Presentation Agenda ...

- Gamma Scanning - Tracer study •
- Case study - Cyclone Blockages - Feed Nozzle performance ... FCC Reactor Stripper ... Online, Non-intrusive Trouble Shooting and Process ... Stripper baffle design

The performance of the FCC reactor stripper also has a substantial impact on yields and profitability. Ideal stripper design provides

adequate catalyst residence time and low... Refiner Improves FCC Yields Using Latest Process ... The objective of the present work is the design of a nozzle that makes these two functions. Some relevant parameters in the design of sprays for systems of gas oil feeding are analyzed to FCC processes and it is presented the case of a circular type nozzle that generates a hollow cone film that has a uniform mass distribution. CiteSeerX — Design of Hollow Cone Nozzles for Gas Oil ... The International Journal of Applied Ceramic Technology publishes cutting-edge applied research and development work focused on commercialization of engineered ceramics, products and processes. Nozzle extensions made of ceramic matrix composites

(CMCs) have shown the potential to replace heavy superalloy nozzles and improve the performance of

... Design, Manufacture, and Characterization of a Carbon

... spray technology ADVANCED

TESTING & MODELING The Spray

Analysis and Research Services

group at Spraying Systems Co.

offers specialized testing and

modeling services to predict and

validate spray

performance. Advanced Testing and

Modeling | Spraying Systems

Co. Nozzle extensions made of

ceramic matrix composites (CMC s)

have shown the potential to replace

heavy superalloy nozzles and

improve the performance of future

upper-stage and orbital rocket

engines. Gas permeability has been

reported to be a critical issue during

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the manufacture for CMC nozzles.
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