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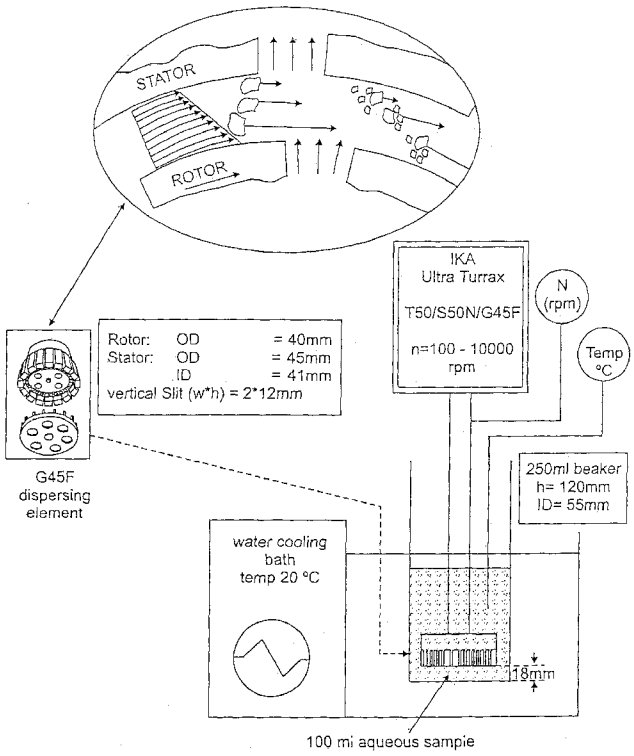
(54) **Title:** ATTRITION RESISTANT PARTICULATE CATALYST



Standardised conditions:
- Temp: 20 °C
- 100 ml sample
- 5 % V concentration of catalyst in water
- Mixer speed 5750 rpm

(57) **Abstract:** A spray dried particulate catalyst comprising a catalytically active component, a carrier and optionally a catalyst promoter, is described. The catalyst has a decrease in average particle diameter following the Shear Test as described herein of 25% or less. The fraction of catalyst particles being less than 10 µm in size, can also be less than 20%. The present invention also provides a method of manufacturing a particulate catalyst material comprising preparing an aqueous slurry, spray drying the aqueous slurry using a spray drier with an inlet temperature of less than 300 °C, and calcining the particulate obtained. The invention has found that catalyst strength may be improved by careful manipulation of the spray drying conditions. In particular, it has been found that a catalyst that is spray dried at a relatively low gas inlet temperature, preferably in the range of 200 °C to 250 °C, shows advantageous attrition characteristics (in terms of attrition resistance) compared to catalysts prepared by spray drying at higher temperatures.

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