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## Declarations under Rule 4.17:

- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))
- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))

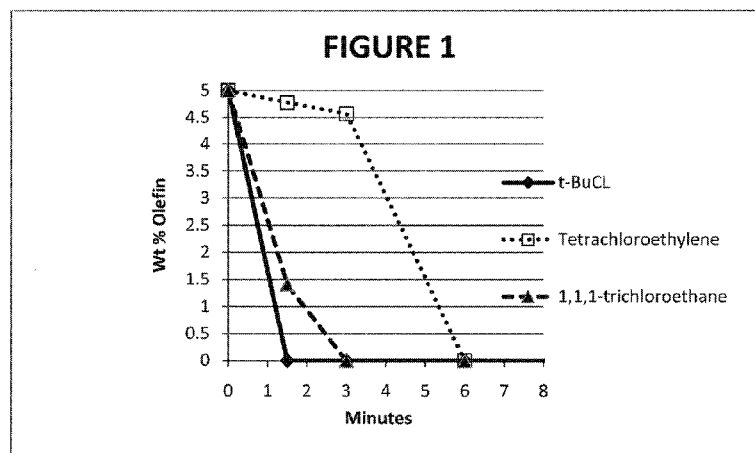
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(54) Title: HYDROCONVERSION PROCESS WITH ALKYL HALIDE COMPRISING AT LEAST 55 WT% HALIDE



(57) Abstract: A process comprising: contacting a blend of hydrocarbons under hydroconversion conditions in a hydroconversion zone with a mixture of an acidic ionic liquid catalyst and at least one alkyl halide comprising at least 55 wt% halide and having a boiling point of 70°C or higher. An alkylation process comprising: contacting a blend of hydrocarbons under alkylation conditions with a mixture of an acidic ionic liquid catalyst that is a chloroaluminate and at least one alkyl halide comprising 1,1,1 trichloroethane, tetrachloroethylene, or a mixture thereof; wherein greater than 99.9 wt% of an at least one olefin in the blend of hydrocarbons is alkylated. Also, a hydroconversion process comprising drying the alkyl halide.