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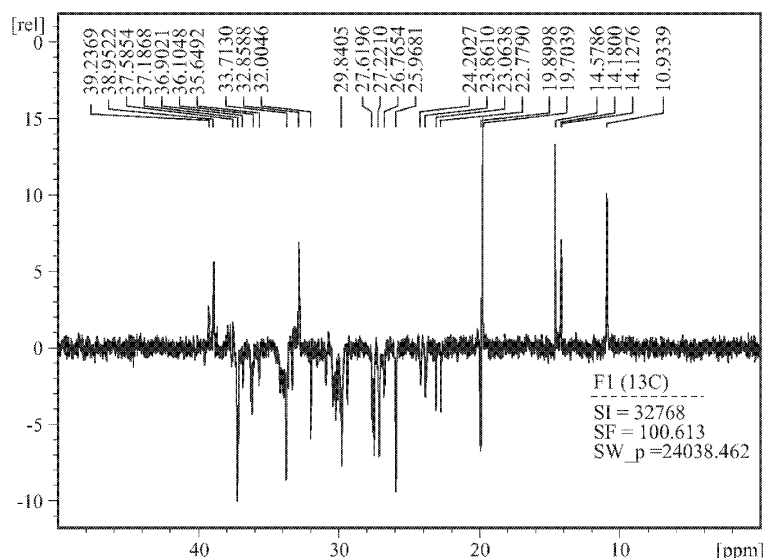
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(54) Title: PROCESSES FOR POLYMERIZING INTERNAL OLEFINS AND COMPOSITIONS THEREOF

FIG. 1



(57) Abstract: The present disclosure provides base stocks and processes for producing such basestocks by polymerizing internal olefins. The present disclosure further provides base stocks, comprising low molecular weight polyolefin products, having one or more of improved flow, low temperature properties, and thickening efficiency. The present disclosure further provides polyolefin products useful as base stocks and or diesel fuel. In at least one embodiment, a process includes introducing a feedstream comprising C₄-C₃₀ internal-olefins with a catalyst system comprising a nickel diimine catalyst optionally in the presence of a solvent. The method includes obtaining a C₆-C₁₀₀ polyolefin product having one or more of a carbon fraction of epsilon-carbons of from about 0.08 to about 0.3, as determined by ¹³C NMR spectroscopy, based on the total carbon content of the polyolefin product.

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