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(54) Title: PROCESS FOR SEPARATING LINEAR ALPHA OLEFINS FROM 2-BRANCHED AND/OR 3-BRANCHED ALPHA OLEFINS (57) Abstract A process for separating linear alpha olefins from their mixture in a feed stream with olefins which are branched at the 2- and/or 3-position, the process comprising: a) contacting the feed stream with one or more linear polyaromatic compounds having 3 or more fused aromatic, optionally substituted, rings under conditions effective to form a linear polyaromatic compound-linear alpha olefin adduct; b) separating the linear polyaromatic compound-linear alpha olefin adduct from the reaction mixture; and c) dissociating the linear polyaromatic compound-linear alpha olefin adduct to form the linear polyaromatic compound and a linear alpha olefin composition, and optionally d) separating the linear polyaromatic compound formed in step c) from said linear alpha olefin composition.		