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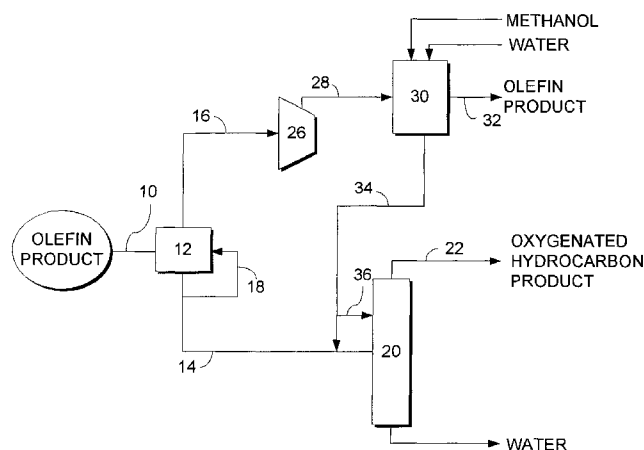
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Declarations under Rule 4.17:

— as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) for the following designations AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG,

[Continued on next page]

(54) Title: OXYGENATED HYDROCARBON COMPOSITIONS AND METHOD FOR RECOVERING THE COMPOSITIONS



(57) Abstract: Disclosed is a method of recovering oxygenates from an olefin production process and oxygenate compositions that can be recovered from an olefin production process. The recovered oxygenate compositions comprise a mixture of alcohols, ethers, ketones, and/or aldehydes. The method comprises contacting an oxygenate with a molecular sieve catalyst to form an olefin composition, wherein the olefin composition comprises olefin, water and oxygenated hydrocarbon. The olefin composition is cooled to form a liquid water containing stream and an olefin containing vapor stream, wherein the water containing stream comprises at least 1 wt% oxygenated hydrocarbon. The water containing stream is separated from the vapor stream, and the vapor stream is compressed. An olefin product stream and an oxygenated hydrocarbon containing stream are separated from the compressed vapor stream, and the oxygenated hydrocarbon containing stream separated from the compressed vapor stream is combined with the cooled, liquid water containing stream. An oxygenated hydrocarbon product is then recovered from the combined water containing stream and liquid oxygenated hydrocarbon containing stream.



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