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(54) Title: UPGRADING ASPHALT BY INCORPORATION OF BIO-OILS

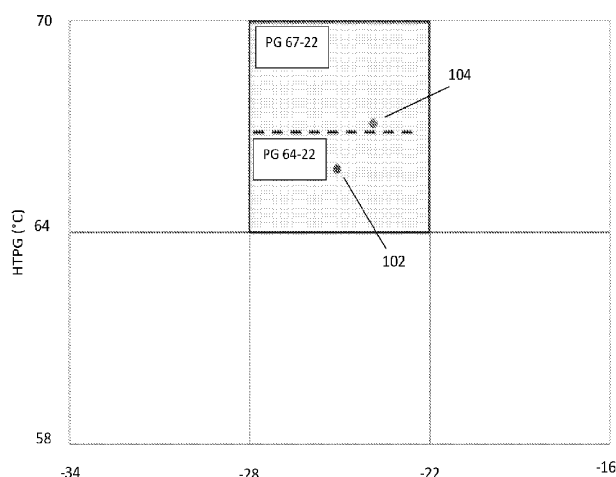


FIG. 1

(57) Abstract: Asphalt compositions are provided that include bio-oil. Some compositions allow for upgrading of deasphalter rock to asphalt with a performance grade suitable for use as paving asphalt by addition of bio-oil to the deasphalter rock. Other compositions allow for upgrading of paving grade asphalt to roofing asphalt by addition of bio-oil followed by oxidation. Methods of forming asphalt compositions including bio-oil are also provided.

[Continued on next page]

TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW,
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