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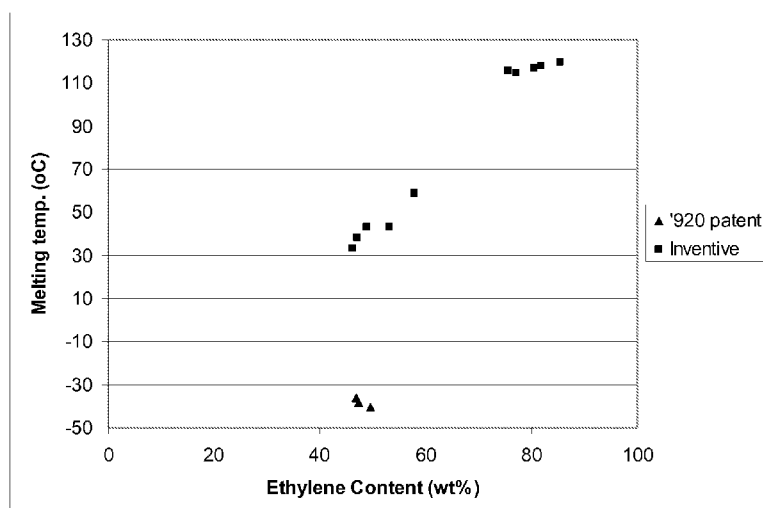
Declarations under Rule 4.17:

— as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))

[Continued on next page]

(54) Title: ETHYLENE COPOLYMERS, METHODS FOR THEIR PRODUCTION, AND USE

Fig. 1

(57) Abstract: Provided is an ethylene copolymer having 40 wt.% to 70 wt.% of units derived from ethylene and at least 30 wt.% of units derived from at least one α -olefin having 3 to 20 carbon atoms and has the following properties: (a) a weight-average molecular weight (M_w), as measured by GPC, in the range of about 50,000 to about 200,000 g/mol; (b) a melting point (T_m) in °C, as measured by DSC, that satisfies the relation: $T_m > 3.4 \times E - 180$ where E is the weight % of units derived from ethylene in the copolymer; (c) a ratio of M_w/M_n of about 1.8 to about 2.5; (d) a content of Group 4 metals of no more than 5 ppm; and (e) a ratio of wt ppm Group 4 metals/ wt ppm Group 5 metals of at least 3. Also provided are methods for making an ethylene copolymer and compositions comprising an ethylene copolymer.



— *as to the applicant's entitlement to claim the priority of
the earlier application (Rule 4.17(iii))*

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