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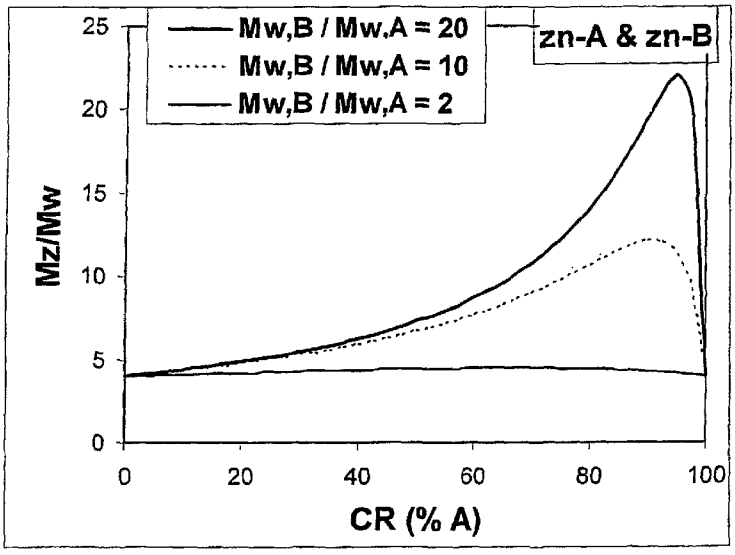
Declarations under Rule 4.17:

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

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

[Continued on next page]

(54) **Title:** PROCESS FOR PREPARING HIGH MELT STRENGTH POLYPROPYLENE



M_z/M_w versus CR for a "zn-A & zn-B" bimodal resin

(57) **Abstract:** A method for producing a polypropylene-containing composition which includes (a) polymerizing a first quantity of propylene in a first reaction zone in the presence of a first polymerization catalyst to provide a first quantity of polypropylene having a weight- average molecular weight $M_{w,A}$; (b) polymerizing a second quantity of propylene optionally mixed with a minor amount of one or more olefins other than propylene in a second reaction zone in the presence of a second polymerization catalyst to provide a second quantity of polypropylene comprising a polypropylene homopolymer or random copolymer and having a weight-average molecular weight $M_{w,B}$; and (c) combining the first quantity of polypropylene with the second quantity of polypropylene to form a bimodal polypropylene; wherein the percent by weight of the first quantity of polypropylene in the bimodal polypropylene composition is equal to or greater than 65 percent, and the ratio $M_{w,B}/M_{w,A}$ is at least about 2.

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