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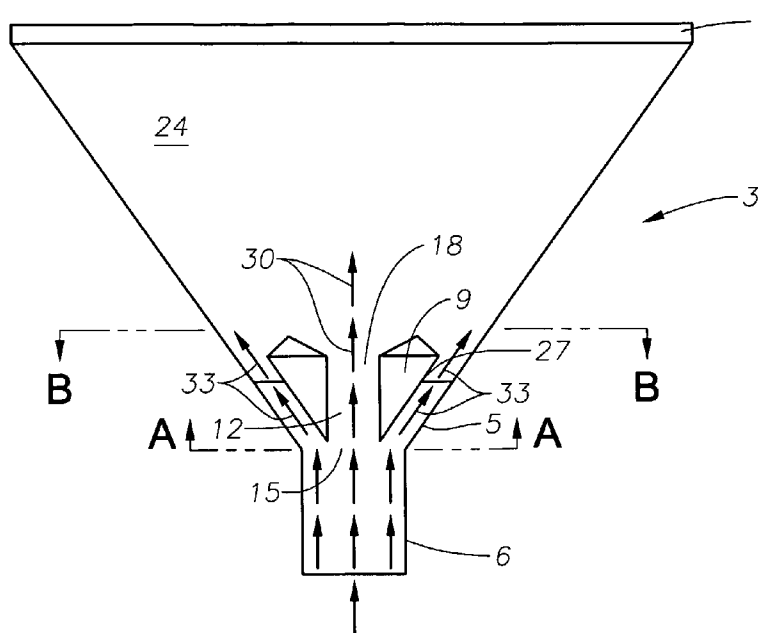
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**Declarations under Rule 4.17:**

— 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, BW, BY, BZ,

[Continued on next page]

(54) Title: AN ANGULAR FLOW DISTRIBUTION BOTTOM HEAD



(57) Abstract: An improved angled annular deflector for angular flow distribution in a fluidized bed polymerization reactor. The angled annular deflector has an outer surface with a conical shape and an inner cavity along a central axis, said cavity open at both ends. The angled annular deflector being adapted to associate with a cone-shaped bottom portion of a fluidized bed polymerization reactor vessel and when in said association the outer surface of said angled annular deflector is at an angle to be substantially parallel to an inner wall of the cone-shaped bottom portion. This combination leads to increased optimization of fluid flow.

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