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(54) Title: FLOW CONDITIONER AND METHOD FOR OPTIMIZATION

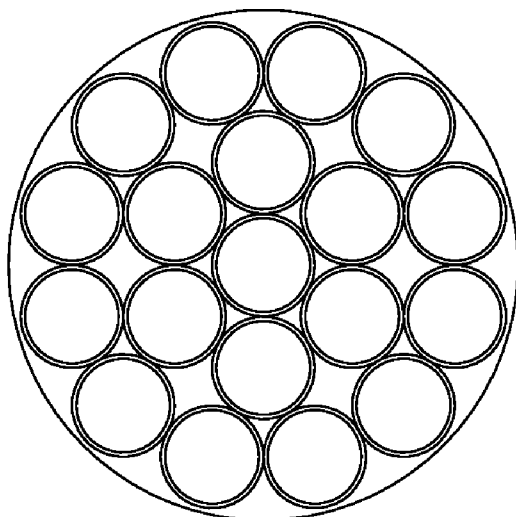


FIG. 1A
PRIOR ART

(57) Abstract: A flow conditioner for a circular pipe having an axis. The flow conditioner includes a plate having a face to be disposed in the circular pipe with the face of the plate perpendicular to the axis of the pipe. The plate has a central circular passage area through which fluid flows surrounded by two or more concentric arrays of segmented annular passages for fluid flow defined by separating and subdividing ligaments, with at least one subdividing ligament having a width different than a width of a second subdividing ligament. Alternatively, or in addition, there is at least one array of annular passages having a radial width different than a radial width of a second array of annular passages and at least one subdividing ligament having a width different than a width of a second subdividing ligament. A method of producing an optimized geometry of flow conditioner for a circular pipe having an axis.



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