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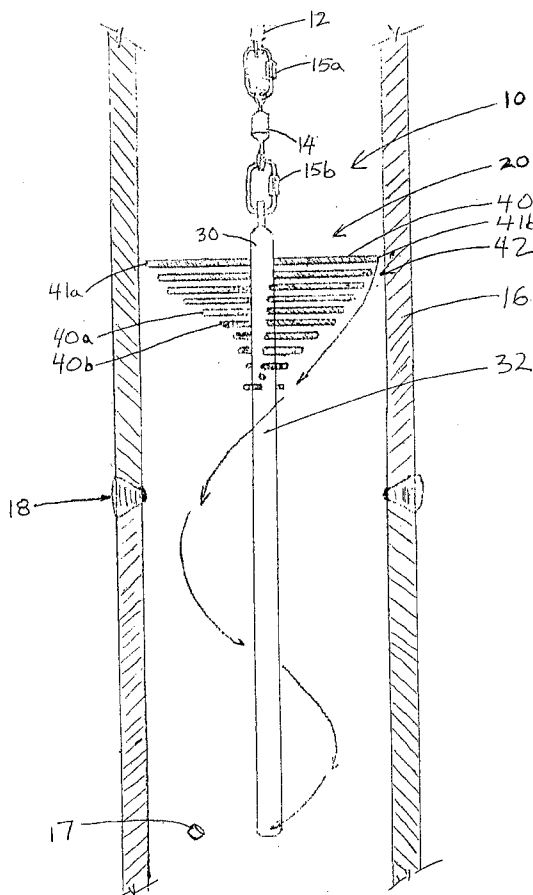
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[Continued on next page]

(54) Title: FILLING TUBES WITH CATALYST AND/OR OTHER PARTICULATE



(57) Abstract: Particulate filling devices and methods are disclosed that utilize a swivel connector, a mounting surface connected to the swiveling connector, and several obstacles mounted on the mounting surface. The obstacles are positioned consecutively to form a helix-pattern.



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