

said tube, forming a vortex, such that a lowest point on surface of said vortex is substantially level with said aperture, whereby said liquid is robustly mixed with said vapor in the area adjacent to said aperture, said vapor being drawn through said aperture, and said vapor being entrained into said liquid.

20. An apparatus for mixing liquid and for entrainment mixing of vapors in liquid comprising:

a tube, magnetically coupled to a drive mechanism having an open top end and a longitudinal bore extending into said tube from an open top end to a closed bottom end, said closed bottom end forming a floor within said longitudinal bore, said tube also having an exterior bottom end, said tube further having an exterior axial surface between said open top end and said exterior bottom end, said exterior axial surface having at least one helix in the form an external screw thread, said tube also having a sidewall between said exterior axial surface and said longitudinal bore, said sidewall also defining at least one aperture for circulation of vapor.

21. An apparatus for mixing liquid and for entrainment mixing of vapors in liquid comprising:

a tube and base, that are magnetically coupled to a drive mechanism;
 said tube having an open top end and a longitudinal bore extending into said tube from an open top end to a closed bottom end, said closed bottom end forming a floor within said longitudinal bore, said tube also having an exterior bottom end, said tube further having an exterior axial surface between said open top end and

said exterior bottom end, said exterior axial surface having at least one helix in the form an external screw thread, said tube also having a sidewall between said exterior axial surface and said longitudinal bore, said sidewall also defining at least one aperture for circulation of vapor;

said base having a disk having a top surface and a substantially flat bottom surface, said top surface having an area greater than an area of a bottom end of said tube, said bottom end of said tube being fixedly attached to said disk such that rotational axes of said disk and said tube are substantially aligned and are substantially perpendicular to said substantially flat bottom of said disk;

at least one bar fixedly attached to or integrally molded with the top of said disk on the annular area of the top of said disk outside the perimeter of said tube, said bar aligned substantially radially from the rotational axis of said disk; and

a magnet disposed within said disk.

22. An apparatus as recited in claim **21** wherein said screw thread has a thread depth at least equal to a radius of said outside surface of said tube, and further comprising:

a mixing vessel capable of containing said tube and said base; and

a magnetic motor disposed beneath said mixing vessel and coupled by magnetic flux with said magnet disposed within said disk.

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