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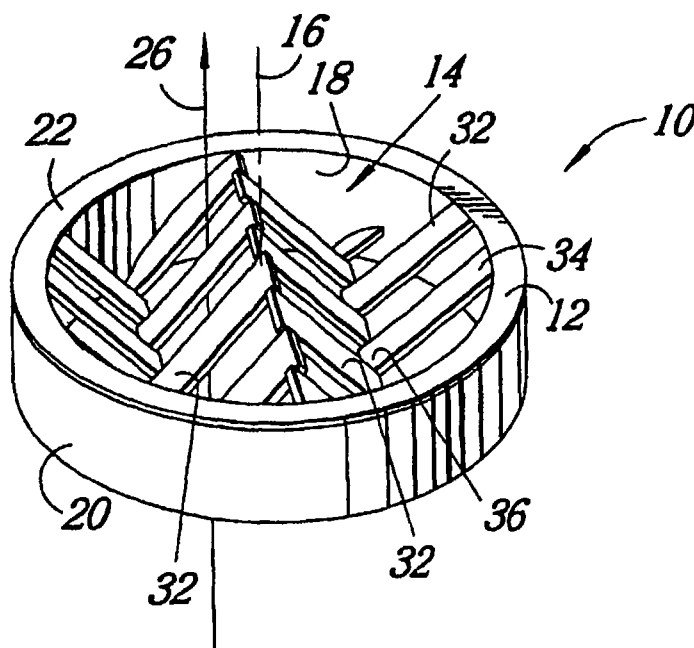
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(54) Title: STACKED STATIC MIXING ELEMENTS



(57) Abstract: A saddle element (10) for a static mixer includes a generally ring-shaped support structure (12) having a central axis (16), concentric inner and outer, radially spaced, circumferentially extending surfaces (18, 20), and first and second axially spaced, generally parallel edge surfaces (22, 24). The inner surface (18) of the ring-shaped support structure (12) defines a fluid flow path along the central axis (16). The saddle element (10) includes a plurality of crossbars (32) that are located in the flow path (26). The crossbars (32) have a first end (34) which is closer to the transverse plane (28) of the first edge (22) of the ring-shaped support structure (12) than to the transverse plane (30) of the second edge (24) of the ring-shaped support structure (12). The crossbars (32) also have a second end (36) which is closer to the transverse plane (30) of the second edge (24) than to the transverse plane (28) of the first edge (22). The crossbars (32) are arranged in at least two separate intersecting oblique planes (38, 40, 42, 44), each of which intersecting oblique planes is disposed at an angle relative to the

central axis (16). The saddle elements (10) may be used in a structure (60) which includes four flip-flopped stacked elements (10).