post-consumer waste through a metallic screen basket having an accepts contacting surface approximating that of a right circular cylinder having an axis "A", a circumference "C" and a diameter "D", said surface comprising a plurality of sequences of facets, each sequence comprising a generally circumferentially extending facet, an upstream generally diametrally extending facet adjacent thereto, and a downstream generally diametrally extending facet adjacent thereto, each said generally circumferential facet being generally parallel to the axis "A" of the cylinder and having a leading edge and a trailing edge, each said leading edge and trailing edge as well as each said upstream generally diametrally extending facet and each said downstream generally diametrally extending facet being generally parallel to the axis "A" of the cylinder, each said leading edge being located upon a cylindrical surface $S_1$, and each said trailing edge being located upon a cylindrical surface $S_2$, the diametral difference "δ" between the distance from the axis "A" of the cylindrical surface $S_1$ from the diametral distance from the axis "A" of the cylindrical surface $S_2$ being between about 0.4 mm to about 0.6 mm, the normal direction to the surface of each said generally circumferential facet in each sequence of facets having a component directed toward the adjacent trailing edge of an adjacent generally circumferential facet in an adjacent sequence of facets , the angle "α" between each said generally circumferential facet and the diametral direction of said right circular cylinder being between about 80° and 76°, the distance "t" from the leading edge to the trailing edge of each said generally circumferential facet being between about 2.3 mm and 2.5 mm, the upstream generally diametrally extending facet of each sequence adjoining the leading edge of a generally circumferential facet and the downstream generally diametrally extending facet of each sequence adjoining the trailing edge, the distance between the upstream generally diametrally extending facet of each sequence and the downstream generally diametrally extending facet of the next adjacent sequence "w" being between about 0.11 and 0.14 mm, a relieved channel leading from the accepts side to the rejects side of said screen being defined between the upstream generally diametrally extending

component directed toward the adjacent trailing edge of an adjacent generally circumferential facet in an adjacent sequence of facets , the angle "α" between each said generally circumferential facet and the diametral direction of said right circular cylinder being between about 80° and 76°, the distance "t" from the leading edge to the trailing edge of each said generally circumferential facet being between about 2.3 mm and 2.5 mm, the upstream generally diametrally extending facet of each sequence adjoining the leading edge of a generally circumferential facet and the downstream generally diametrally extending facet of each sequence adjoining the trailing edge, the distance "w" between the upstream generally diametrally extending facet of each sequence and the downstream generally diametrally extending facet of the next adjacent sequence being between about 0.11 mm and 0.145 mm, a channel leading from the supply side to the accepts side of said screen being defined between the upstream generally diametrally extending facet of each sequence and the downstream generally diametrally extending facet of the next adjacent sequence;

a plurality of foils deployed adjacent said supply surface, each said foil being adapted to induce flow past said accepts surface of said screen basket and thereby periodically induce backflow through said channels against the pressure applied to said aqueous liquid, forward flow responsive to the pressure applied to said aqueous liquid occurring during periods between said periodic backflow;

conducting forward flow passing though said channels as an accepts flow to a papermaking operation;

extending facet adjacent thereto, and a downstream generally diametrally extending facet adjacent thereto, each said generally circumferential facet being generally parallel to the axis "A" of the cylinder and having a leading edge and a trailing edge, each said leading edge and trailing edge as well as each said upstream generally diametrally extending facet and each said downstream generally diametrally extending facet being generally parallel to the axis "A" of the cylinder, each said leading edge being located upon a cylindrical surface S1, and each said trailing edge being located upon a cylindrical surface S2, the diametral difference "d" between the distance from the axis "A" to the cylindrical surface S1 and the diametral distance from the axis "A" to the cylindrical surface S2 being between about 0.35 mm to about 0.60 mm, the normal direction to the surface of each said generally circumferential facet in each sequence of facets having a component directed toward the adjacent trailing edge of an adjacent generally circumferential facet in an adjacent sequence of facets , the angle "α" between each said generally circumferential facet and the diametral direction of said right circular cylinder being between about 80° and 76°, the distance "t" from the leading edge to the trailing edge of each said generally circumferential facet being between about 2.30 mm and 2.5 mm, the upstream generally diametrally extending facet of each sequence adjoining the leading edge of a generally circumferential facet and the downstream generally diametrally extending facet of each sequence adjoining the trailing edge, the distance between the upstream generally diametrally extending facet of each sequence and the downstream generally diametrally extending facet of the next adjacent sequence being between about 0.11 mm and 0.145 mm, a channel leading from the supply side to the accepts side of said screen being defined between the upstream generally diametrally extending facet of each sequence and the downstream generally diametrally extending facet of the next adjacent sequence.

through said screen basket; wherein the improvement comprises; said screen basket comprising a plurality of metallic faceted vanes defining an interior supply side surface approximating that of a right circular cylinder having an axis "A", a circumference "C" and a diameter "D", each vane having formed therein: a generally circumferentially extending facet, an upstream generally diametrally extending facet adjacent thereto, and a downstream generally diametrally extending facet adjacent thereto, each said generally circumferential facet being generally parallel to the axis "A" of the cylinder and having a leading edge and a trailing edge, each said leading edge and trailing edge as well as each said upstream generally diametrally extending facet and each said downstream generally diametrally extending facet being generally parallel to the axis "A" of the cylinder, each said leading edge being located upon an imaginary cylindrical surface S1 generally coaxial with said screen basket, and each said trailing edge being located upon another imaginary cylindrical surface S2 generally coaxial with said screen basket, the diametral difference "d" between the distance from the axis "A" to the cylindrical surface S1 and the diametral distance from the axis "A" to the cylindrical surface S2 being between about 0.35 mm to about 0.60 mm, the normal direction to the surface of each said generally circumferential facet on each vane having a component directed toward the adjacent trailing edge of an adjacent generally circumferential facet in an adjacent vane , the angle "α" between each said generally circumferential facet and the diametral direction of said right circular cylinder being between about 80° and 76°, the distance "t" from the leading edge to the trailing edge of each said generally circumferential facet being between about 2.30 mm and 2.5 mm, the upstream generally diametrally extending facet of each vane adjoining the leading edge of a generally circumferential facet and the downstream generally diametrally extending facet of each vane adjoining the trailing edge, the distance between the upstream generally diametrally extending facet of each vane and the downstream generally diametrally extending facet of the