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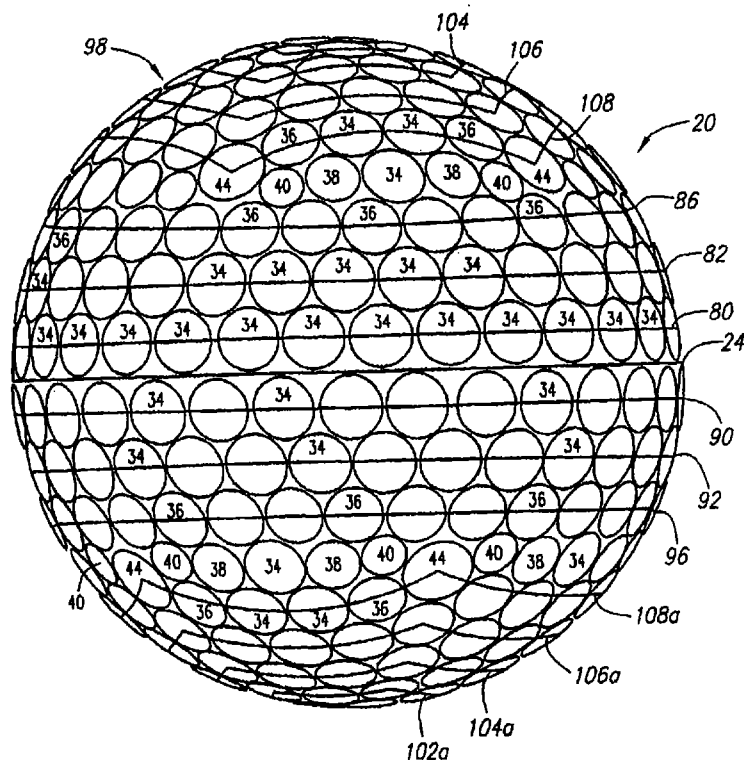
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(54) Title: GOLF BALL DIMPLES WITH CURVATURE CONTINUITY



(57) Abstract: A golf ball (20) having a surface (22) thereon with a plurality of dimples (34, 36, 38, 40, 42, 44 and 46) on the surface (22) is disclosed herein. The contour (199) of each of the dimples (34, 36, 38, 40, 42, 44 and 46) is continuous from a first edge (200a) of each of the dimples (34, 36, 38, 40, 42, 44 and 46) to a second opposing edge (200b) of each of the dimples (34, 36, 38, 40, 42, 44 and 46). The contour (199) at the first edge (200a) may be equal to the contour (199) of a sphere of the golf ball (20). The contour (199) of each of the dimples (34, 36, 38, 40, 42, 44 and 46) may be convex from the first edge (200a) to a first inflection point (202a) and from the second edge (200a) to a second inflection point (202b), and the contour (199) may be concave between the first inflection point (202a) and the second inflection point (202b). The contour (199) may be defined by the following equation: $P(t) = 3 B_i J_{n,i}(t) 0 \leq t \leq 1$, wherein $J_{n,i}(t) = \binom{n}{i} t^i (1-t)^{n-i}$, n is equal to at least five, and $i = n + 1$. The radius of each point from a bottom center (204) to the first edge (200a) may be different from any other point from the bottom center (204) to the first edge (200a).

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