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(54) **THERMOPLASTIC MULTI-LAYER GOLF BALL**

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(58) **Field of Classification Search**
USPC 473/351–378
See application file for complete search history.

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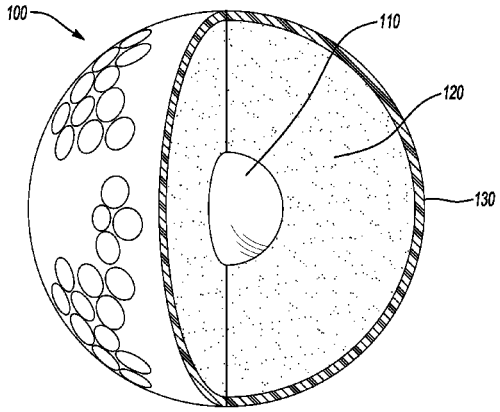
(57) **ABSTRACT**

A golf ball has a relatively light core center. The golf ball may have a thermoplastic core center with diameter about 28-35 mm and flexural modulus under about 15,000 psi; a thermoplastic core layer with flexural modulus ≤about 15,000 psi and >the core center's flexural modulus; and a cover ≥about 2 mm thick with specific gravity ≥about 2 g/cm^3 and flexural modulus ≥about 15,000 psi. Alternatively, the core center has diameter about 21-29 mm, flexural modulus <about 15,000 psi, and specific gravity ≤about 0.95 g/cm^3; the core layer has specific gravity ≥about 1.1 g/cm^3 and flexural modulus ≤about 15,000 psi and >the core center flexural modulus; and the cover is ≥about 1 mm thick, has specific gravity ≥about 1.1 g/cm^3, and flexural modulus ≥about 15,000 psi.

15 Claims, 1 Drawing Sheet