

**HIGH DENSITY CERAMIC AND CERMET SPUTTERING TARGETS BY MICROWAVE
SINTERING****Abstract of the Disclosure**

- [0056] A method of manufacturing sputtering targets from powder materials, comprising steps of: providing at least one raw powder material; forming the at least one raw powder material into a green body with density greater than about 40 % of theoretical maximum density;
- 5 treating the green body with microwaves to form a sintered body with density greater than about 97 % of theoretical maximum density; and forming a sputtering target from the sintered body. The methodology is especially useful in the fabrication of targets comprising dielectric and cermet materials.

Figure 1