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ABSTRACT

Double-layer Metal Sheet and Method of Fabricating the Same

5 A method of bonding two powder components having different shrinkage factors, one of which is metal powder, is disclosed herein. In the preferred method, at step 1.1, each powder component is separately mixed with a powder binder to substantially match the other powder component's shrinkage factor. Then at steps 1.2 to 1.4, the powder component mixtures are compacted in a
10 die set to form a green compact. Next at step 1.5, the green compact is debindered and at step 1.6, the green compact is sintered in a furnace while applying pressure on a surface of the green compact during the sintering process. In this way, the two powder components can be bonded directly without a need for an intermediate gradient zone and a double-layer metal
15 sheet can be thus formed.

Figure 1