

(12) **United States Patent**
Epshteyn et al.

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(54) **SPHERICAL COPPER/MOLYBDENUM DISULFIDE POWDERS, METAL ARTICLES, AND METHODS FOR PRODUCING SAME**

(58) **Field of Classification Search**
CPC . C10M 125/22; B22F 5/00; B22F 3/18; B22F 2998/00

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(51) **Int. Cl.**
C10M 125/22 (2006.01)
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(57) **ABSTRACT**

A method of producing a compacted article according to one embodiment may involve the steps of: Providing a copper/molybdenum disulfide composite powder including a substantially homogeneous dispersion of copper and molybdenum disulfide sub-particles that are fused together to form individual particles of the copper/molybdenum disulfide composite powder; and compressing the copper/molybdenum disulfide composite powder under sufficient pressure to cause the copper/molybdenum disulfide composite powder to behave as a nearly solid mass.

(52) **U.S. Cl.**
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(2013.01); **B22F 5/02** (2013.01); **B22F 5/10**
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40 Claims, 9 Drawing Sheets

