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(54) Title: MOLYBDENUM PENTACHLORIDE CONDITIONING AND CRYSTALLINE PHASE MANIPULATION

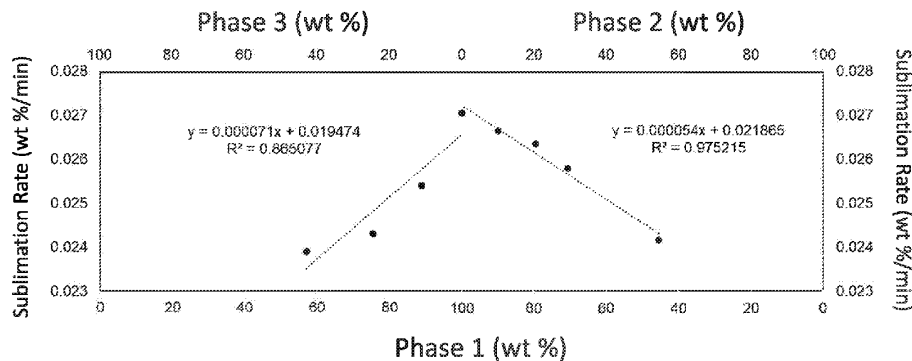


FIG. 2

(57) Abstract: A method of conditioning MoCl₅ comprises heating a container of MoCl₅ to a temperature ranging from approximately 140°C to 190°C for a period ranging from approximately 2 hours to approximately 100 hours to produce a MoCl₅-containing composition comprising approximately 10% weight to approximately 60% weight of Phase 1 MoCl₅ and 90% weight to approximately 40% weight of Phase 2 MoCl₅ as determined by X-ray diffraction. This MoCl₅-containing composition is expected to be more thermally stable and provides stable vapor supply.

[Continued on next page]

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