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(74) Agent: **RAKERS, Leanne, M.**; Harness, Dickey & Pierce, P.L.C., 7700 Bonhomme, Suite 400, St. Louis, MO 63105 (US).

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(71) Applicant (*for all designated States except US*): **SIGMA-ALDRICH CO. LLC** [US/US]; 3050 Spruce St., St. Louis, MO 63103 (US).

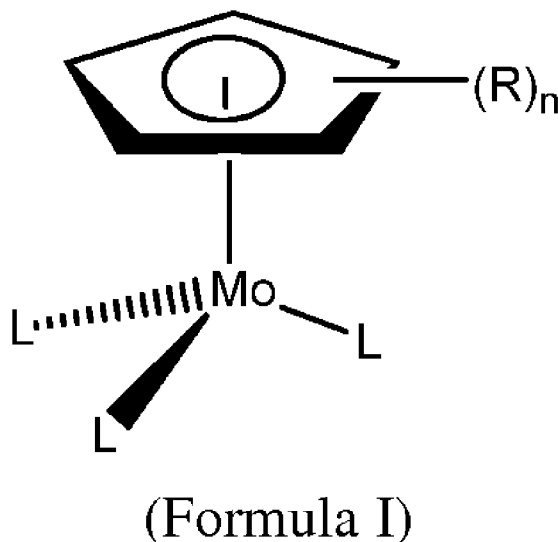
(72) Inventors; and

(75) Inventors/Applicants (*for US only*): **HEYS, Peter, Nicholas** [GB/GB]; 469 Crewe Road, Wistaston, Crewe, Cheshire CW2 6QE (GB). **ODEDRA, Rajesh** [GB/GB]; 221 Manchester Road, Altringham, Cheshire WA14 5NU (GB). **HINDLEY, Sarah, Louise** [GB/GB]; 6 Adair Road, Clubmoor, Liverpool L13 9BT (GB).

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(54) Title: MOLYBDENUM (IV) AMIDE PRECURSORS AND USE THEREOF IN ATOMIC LAYER DEPOSITION



(57) Abstract: Molybdenum (IV) amide complexes are disclosed herein corresponding in structure to Formula (I): wherein: L is --NR¹R²; R¹ and R² are C₁-C₆-alkyl or hydrogen; R is C₁-C₆-alkyl; and n is zero, 1, 2 or 3. Further, methods of forming MoO₂ films by atomic layer deposition (ALD) using Formula (I) complexes and Mo[N(Me)(Et)]₄ are disclosed herein.



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