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(54) Title: RUTHENIUM-CONTAINING PRECURSORS FOR CVD AND ALD

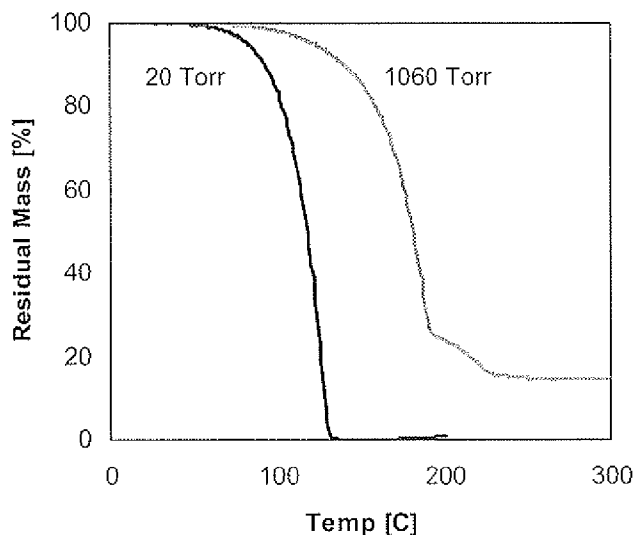


FIG 1

(57) Abstract: Disclosed are ruthenium-containing precursors and methods of using the same in CVD and ALD. The disclosed precursors are metal tricarbonyl complexes having the general formula $L_mRu(CO)_3$, wherein L is a linear or branched unsaturated hydrocarbon or a cyclic unsaturated hydrocarbon having two or more substituents; and m is 1 or 2.