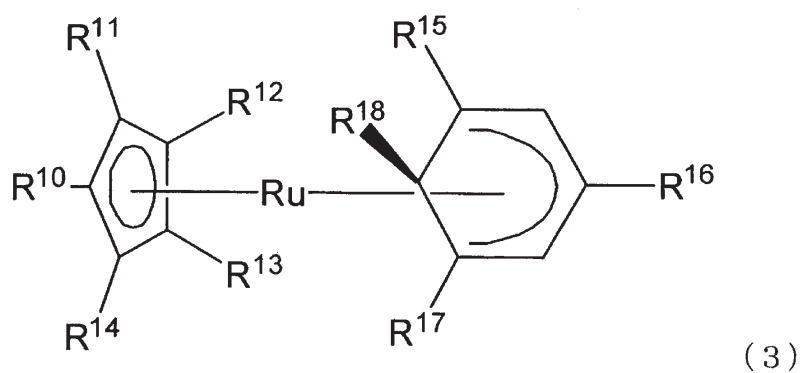
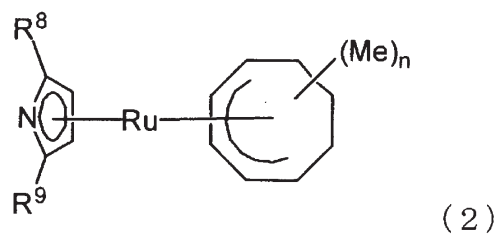
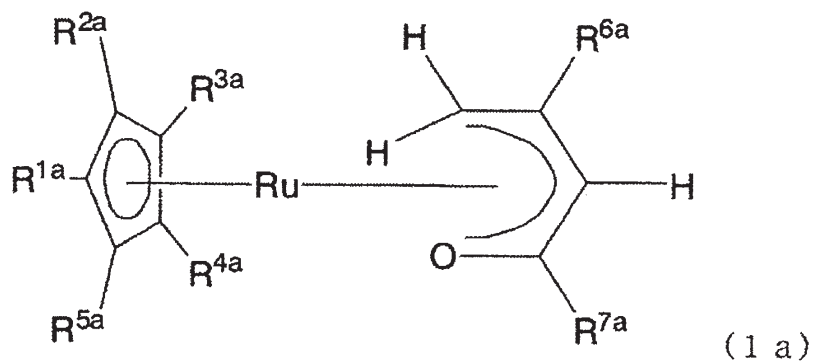


ABSTRACT

To provide a ruthenium complex represented by formula (1a), (2), (3), etc., which is useful for producing a ruthenium-containing thin film both under the conditions using an oxidizing gas as the reaction gas and under the conditions using a reducing gas as the reaction gas.

[Chem. 1]



(wherein R^{1a} to R^{7a} , R^8 , R^9 and R^{10} to R^{18} represents an alkyl group having a carbon number of 1 to 6, etc., and n represents an integer of 0 to 2.)