TITLE OF INVENTION: COMPOUND FOR FORMING METAL-CONTAINING FILM, COMPOSITION FOR FORMING METAL-CONTAINING FILM, AND PATTERNING PROCESS

ABSTRACT

A compound for forming a metal-containing film, containing: at least one kind of metal atom (a) selected from the group consisting of Ti, Zr, and Hf; and a polydentate ligand coordinated to the metal atom (a), where the polydentate ligand is derived from a compound (b) having 1 to 50 carbon atoms, being substituted with a fluorine atom, and containing one or more crosslinkable groups selected from a vinyl group, an allyl group, an allyloxy group, an ethynyl group, a propargyl group, a propargyloxy group, an epoxy group, an oxetanyl group, a nitrile group, and a vinylidene group. This can provide: a compound for forming a metal-containing film to be used for forming a metal-containing film that can contribute to the improvement of sensitivity while maintaining the LWR of the upper layer resist; a composition for forming a metal-containing film, containing the compound; and a patterning process using the composition.

[FIG. 1(I-A) to 1(I-I)]