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(54) Title: POLYCARBOSILAZANE, AND COMPOSITION COMPRISING THE SAME, AND METHOD FOR PRODUCING SILICON-CONTAINING FILM USING THE SAME

(57) Abstract: [Problem] To provide a polycarbosilazane making it possible to form a silicon-containing film which is bearable to acid etching, and a composition comprising the polycarbosilazane. [Means for Solution] The present invention provides a polycarbosilazane comprising a repeating unit of  $-[R^1R^2Si-(CH_2)_n]-$  and  $-(R^3R^4Si-NR^5)-$ , wherein  $R^1$ ,  $R^2$ ,  $R^3$  and  $R^4$  are each independently a single bond, hydrogen or  $C_{1-4}$  alkyl;  $R^5$  is independently a single bond or hydrogen; and  $n$  is 1-2, and a composition comprising the polycarbosilazane. The present invention also provides a method for forming a silicon-containing film, comprising coating the composition above a substrate and heating.



WO 2021/224224 A1