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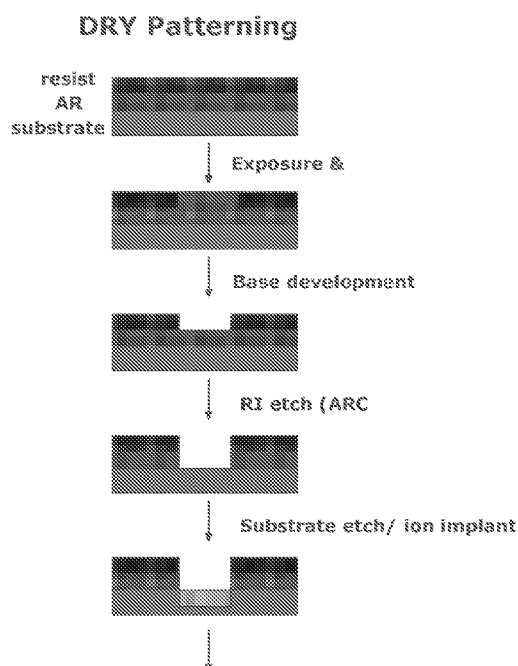
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(54) Title: WET-ETCHABLE ANTIREFLECTIVE COATINGS

Figure 1



(57) Abstract: Antireflective coatings produced from silsesquioxane resin is comprised of the units $(\text{Ph}(\text{CH}_2)_r\text{SiO}_{(3-x)/2}(\text{OR}')_x)_m$ $(\text{HSiO}_{(3-x)/2}(\text{OR}')_x)_n$ $(\text{MeSiO}_{(3-x)/2}(\text{OR}')_x)_o$ $(\text{RSiO}_{(3-x)/2}(\text{OR}')_x)_p$ $(\text{R}^1\text{SiO}_{(3-x)/2}(\text{OR}')_x)_q$ where Ph is a phenyl group, Me is a methyl group; R' is hydrogen atom or a hydrocarbon group having from 1 to 4 carbon atoms; R is selected from a carboxylic acid group or a carboxylic acid forming group with the proviso that there is a sufficient amount of carboxylic acid groups to make the resin wet etchable after cure; and R is selected from substituted phenyl groups, ester groups, polyether groups; mercapto groups, sulfur-containing organic functional groups, hydroxyl producing group, aryl sulphonic ester groups, and reactive or curable organic functional groups; and r has a value of 0, 1, 2, 3, or 4; x has a value of 0, 1 or 2; wherein in the resin m has a value of 0 to 0.90; n has a value of 0.05 to 0.99; o has a value of 0 to 0.95; p has a value of 0.01 to 0.5; q has a value of 0 to 0.5; and $m + n + o + p + q \approx 1$.



ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV,
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