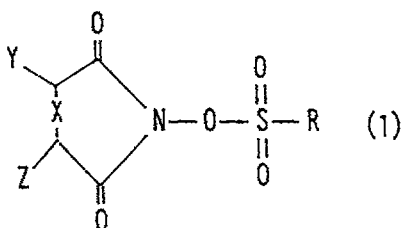


N-sulfonyloxyimide Compound And Radiation-sensitive
Resin Composition Using The Same

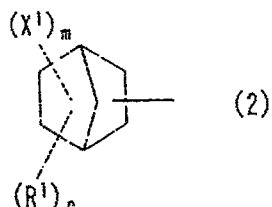
ABSTRACT OF THE DISCLOSURE

An N-sulfonyloxyimide compound having the formula (1):



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wherein X represents a single bond or a double bond, Y and Z represent a hydrogen atom or others and may combine to form a cyclic structure; and R is a group having the formula (2):



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wherein X^1 represents an organic group having an ester linkage, R^1 represents an alkyl group or an alkoxyl group; and m is an integer of 1 to 11 and n is an integer of 0 to 10, satisfying $m + n \leq 11$; and chemically amplified positive and negative radiation-sensitive resin compositions using the compound are provided. The N-sulfonyloxyimide compound is a good radiation-sensitive acid-generating agent, has no problem of volatilization or side reaction, can keep dark reaction from taking place during the storage. The compound is useful as a component of radiation-sensitive chemically amplified resists.

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Figure 1.