United States Patent [19]

Frame

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[54] **OXIDATION OF SULFUR-CONTAINING COMPOUNDS**

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[52] **U.S. Cl.** ..... **260/608;** 208/207; 423/573 R

[51] **Int. Cl.**[2] **C07C 148/06**

[58] **Field of Search** 260/608; 208/207; 423/573

[56] **References Cited**

UNITED STATES PATENTS

2,921,020	1/1960	Urban et al.	260/608
2,921,021	1/1960	Urban et al.	260/608
3,230,180	1/1966	Larson et al.	208/207
3,565,959	2/1971	Takase et al.	260/608
3,709,983	1/1973	Hamblin	423/573

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[57] **ABSTRACT**

A process is disclosed which comprises the oxidation of sulfur-containing compounds by treating said sulfur-containing compounds with an oxygen-containing gas in a medium possessing a *p*H in a range of from about a *p*H of 8 to a *p*H of about 14 in the presence of a catalyst system comprising a Group VIIB metal phthalocyanine and a Group VIII metal phthalocyanine.

23 Claims, No Drawings