

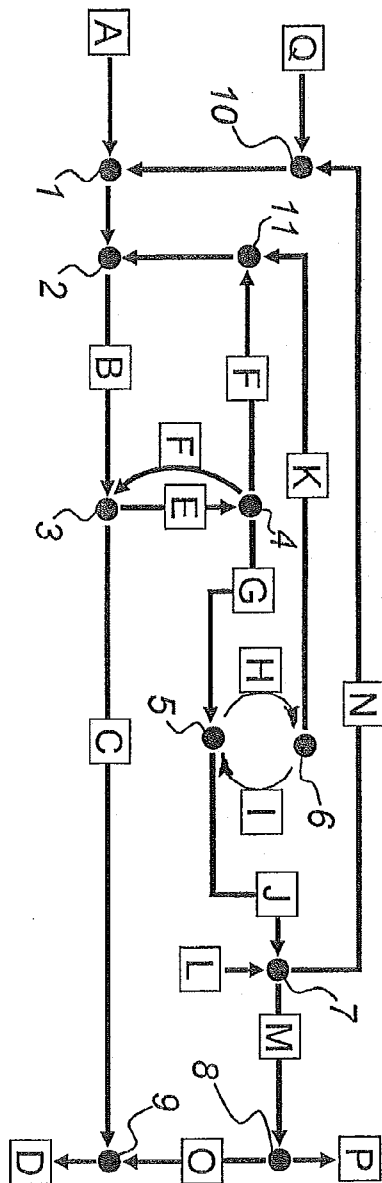
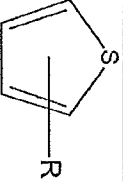
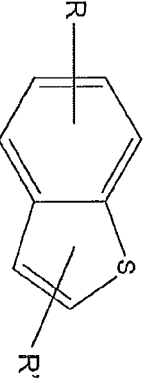
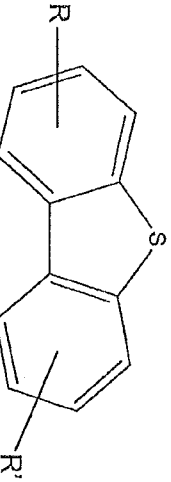
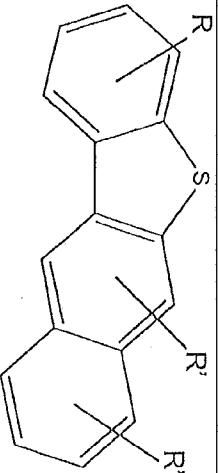




Figure 2

Species Name	Molecular Structure	Bp (°F/°C)	Molecular Weight
Mercaptans	RSH	N/A	N/A
Sulfides	RSR'	N/A	N/A
Disulfides	RSSR'	N/A	N/A
Thiophenes		180/84	84
Benzothiophenes		430/221	134
Dibenzothiophenes		630/332	184
Benzo-Naphthothiophenes		700/371	234

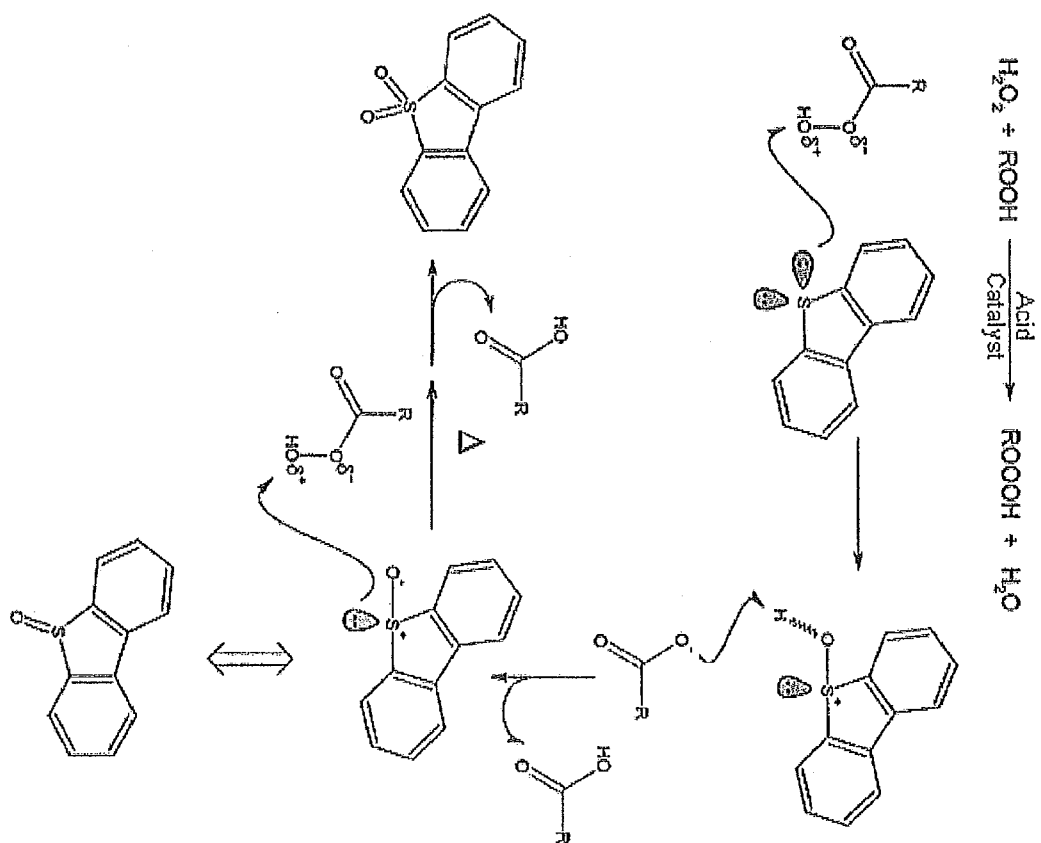
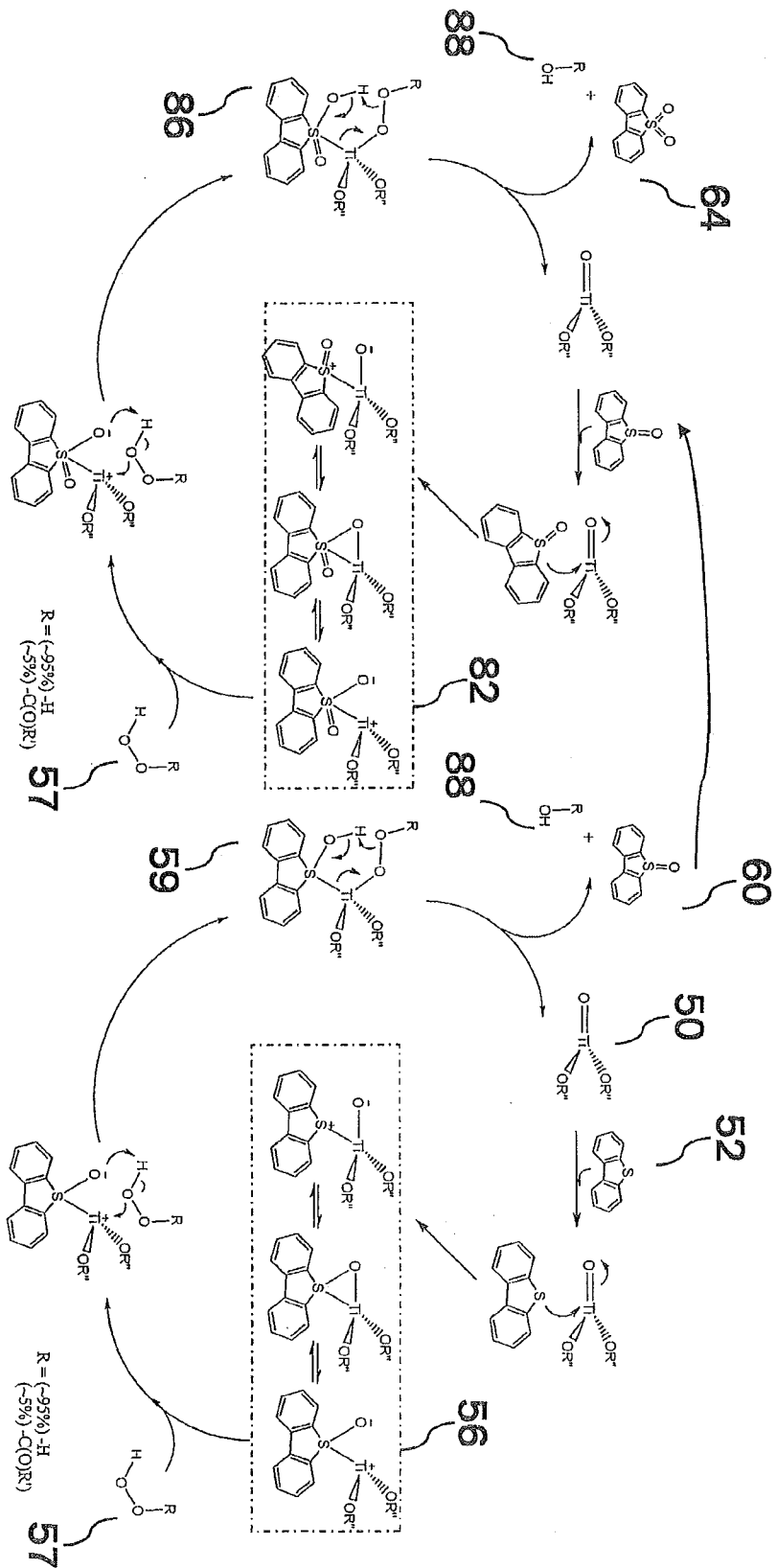


Figure 3

Figure 4



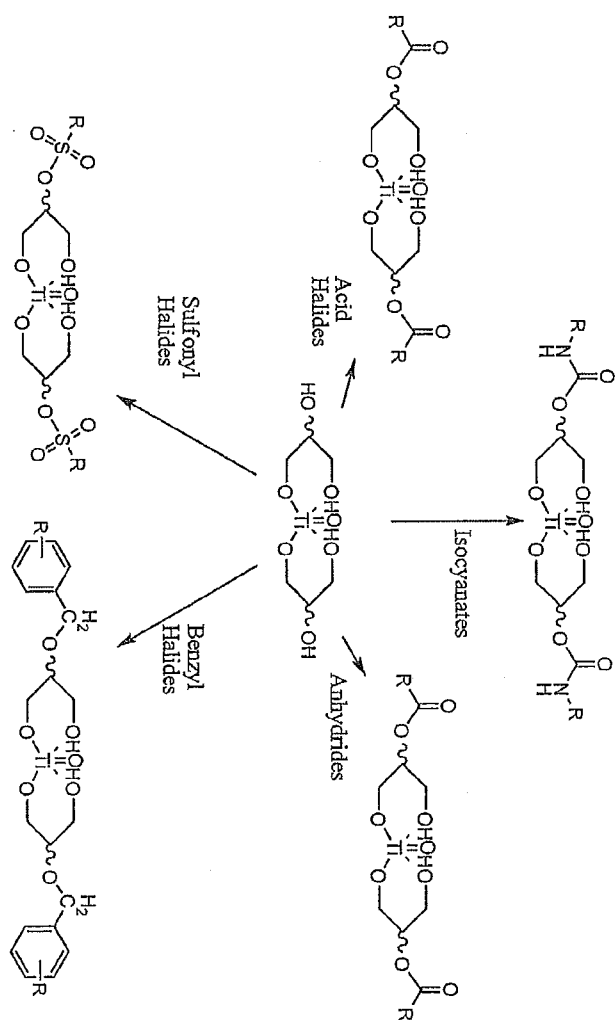
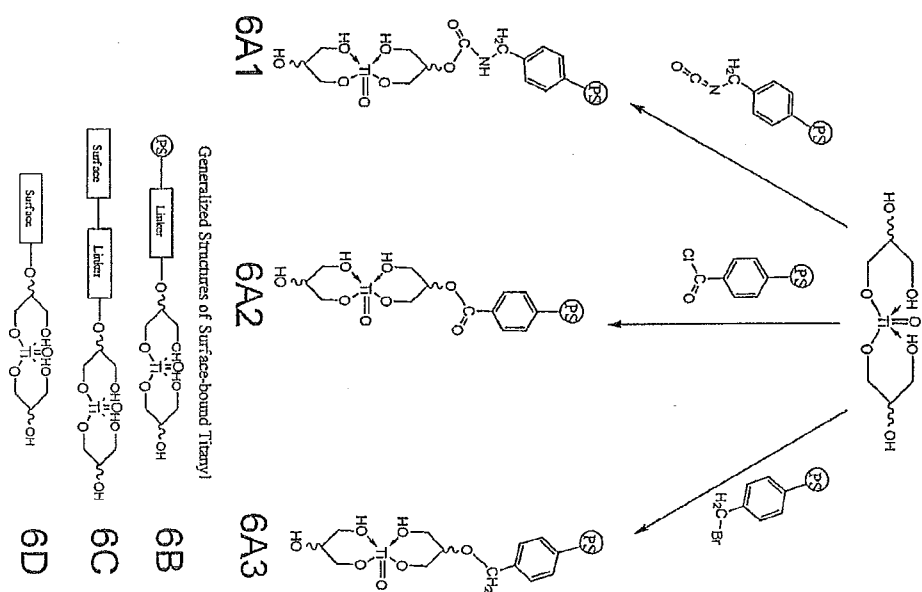


Figure 5

Fig. 6



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Generalized Structure of Polymeric Catalyst

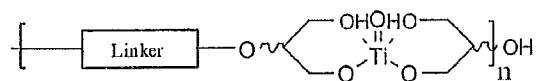


Figure 7

On Surface & Inside Pores

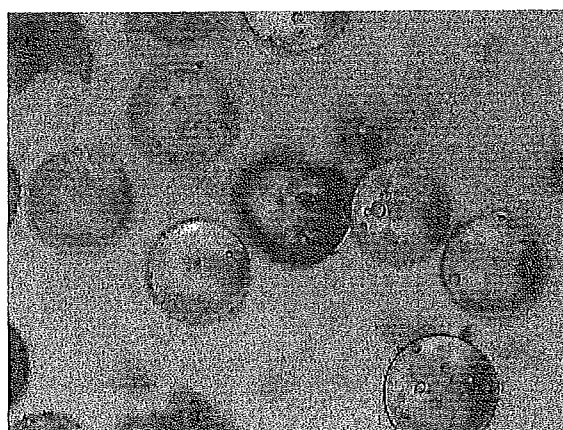


Figure 8

Integrated w/in Support

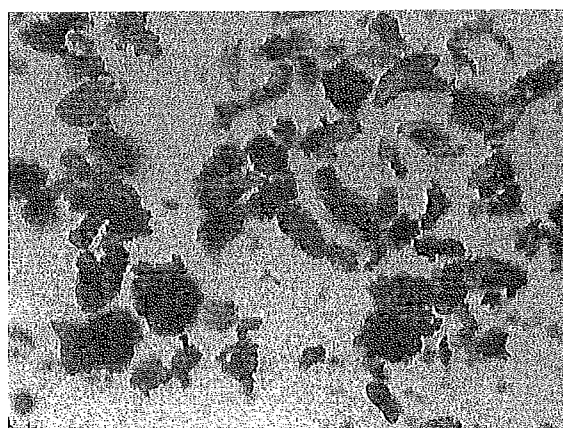


Figure 9

Figure 10. A graphic depiction for the reaction mechanism of olefins with peracids

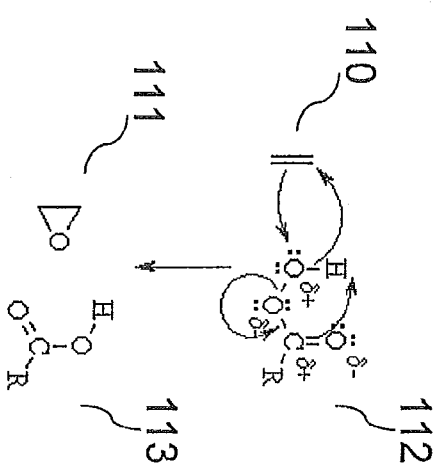
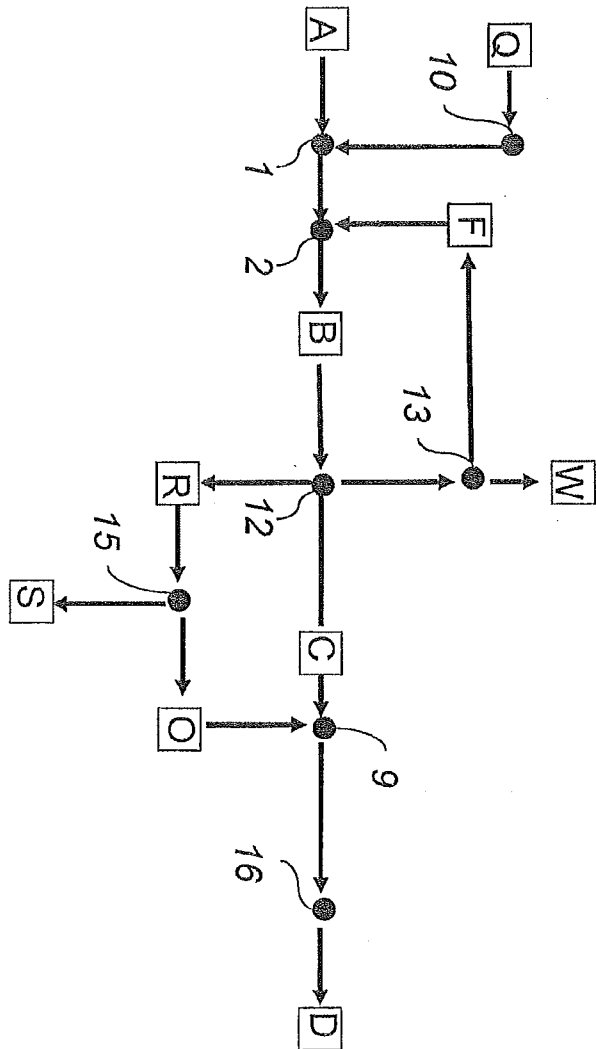


Figure 11



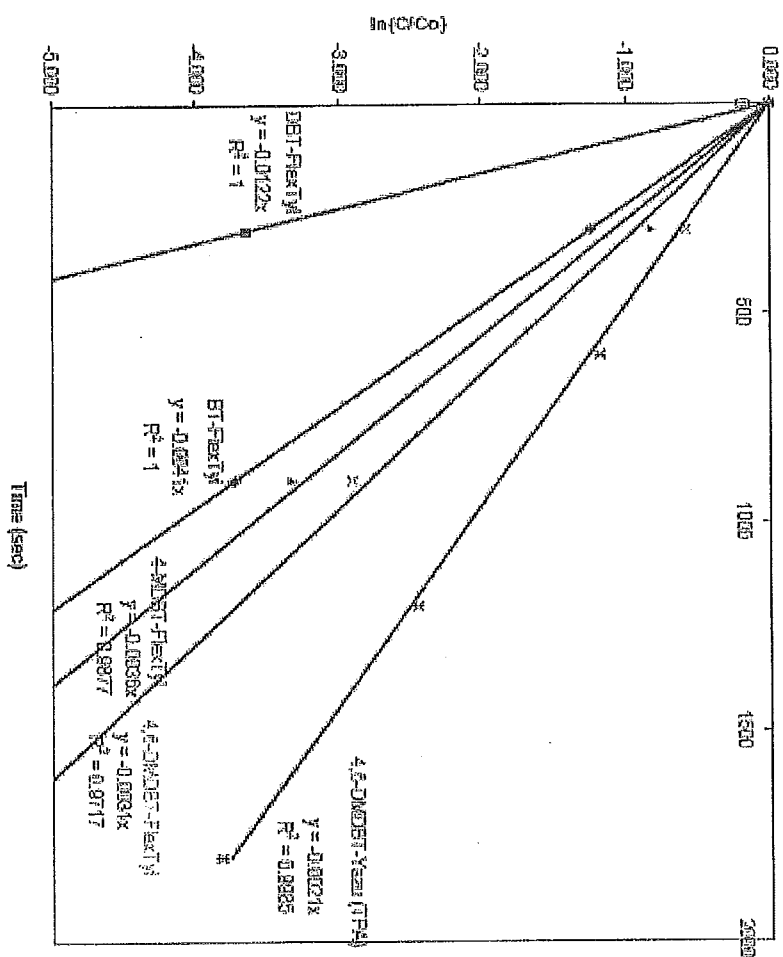


Figure 1. Pseudo-1st Order Plot for the Oxidation of Benzothiophenes (26:1 Oxidant:S ratio, 9700 S:Ti ratio, 2 Acetic Acid: Oil mass ratio)

Figure 12