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Langdon

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[54] **MULTI-BLOCK COUPLED POLYOXYALKYLENE COPOLYMER SURFACTANTS**

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Related U.S. Application Data

[60] Division of Ser. No. 654,268, Feb. 2, 1976, Pat. No. 4,072,704, which is a continuation-in-part of Ser. No. 498,670, Aug. 19, 1974, abandoned.

[51] **Int. Cl.**[2] **C07C 43/30;** C07C 43/32

[52] **U.S. Cl.** **568/601;** 568/603

[58] **Field of Search** ..... 260/615 A; 568/601, 568/603

[56] **References Cited**

U.S. PATENT DOCUMENTS

2,535,458	12/1950	Robeson	260/615 A
2,785,949	3/1957	Kress	260/615 A
2,785,995	3/1957	Kress	260/615 A
2,786,081	3/1957	Kress	260/615 A
2,796,401	6/1957	Matuszak et al.	260/615 A X
2,796,423	6/1957	Cottle et al.	260/615 A
2,838,573	6/1958	Matuszak et al.	260/615 A
2,878,294	3/1959	Kress	260/615 A
3,382,176	5/1968	Jakobi et al.	260/615 A X
3,931,337	1/1976	Langdon	260/615 A

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[57] **ABSTRACT**

Multi-block coupled polyoxyalkylene copolymer surfactants are prepared from individual blocks of polymers and copolymers of alkylene oxides by reacting these with bifunctional compounds to form polycarbonate esters and polyformals.

2 Claims, No Drawings