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Brack et al.

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(54) **REDUCTION OF REACTION BY-PRODUCTS
IN POLYCARBONATE RESINS**

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(51) **Int. Cl.⁷** **C08F 6/00**

(52) **U.S. Cl.** **528/480**

(58) **Field of Search** **528/480**

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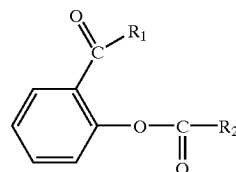
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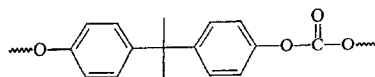
(57) **ABSTRACT**

Polycarbonate resin containing reduced levels of reaction
by-products can be prepared by adding to the polycarbonate
a scavenging agent having the formula:

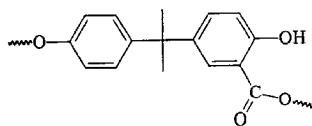


wherein R₁ is alkoxy, phenoxy, benzyloxy or phenyl, and R₂
is a substituted or unsubstituted C₁–C₃₀ alkyl group, C₆–C₃₀
aryl group, C₇–C₃₀ aralkyl group or C₆–C₃₀ aryloxy group
and processing the resulting mixture at an elevated tempera-
ture and for a period of time such that the scavenging agent
reacts with linear Fries products to produce capped linear
Fries products, and with residual phenols (monohydric or
dihydric) to produce capped phenols and ortho-substituted
phenols.

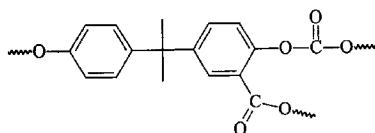
20 Claims, 4 Drawing Sheets



BPA Polycarbonate



Linear Fries



Branched Fries