

(12) **United States Patent**
Wampler et al.

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(54) **POLYSULFIDE TREATMENT OF CARBON BLACK FILLER AND ELASTOMERIC COMPOSITIONS WITH POLYSULFIDE TREATED CARBON BLACK**

(58) **Field of Classification Search**
CPC C09C 1/56; C09C 1/565; C09C 1/58
See application file for complete search history.

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(56) **References Cited**

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(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 70 days.

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(57) **ABSTRACT**

A chemically treated carbon black product is provided, which includes a pellet having an agglomerated mass of carbon black aggregates densified in a generally spheroidal form. The carbon black aggregates have polysulfide adsorbed on surfaces thereof. The polysulfide is thereby distributed throughout the pellet. Elastomeric compositions containing the chemically treated carbon black are also provided, and exhibit a reduction in hysteresis and equivalent or better abrasion resistance. A method for manufacturing the treated carbon black product is also disclosed.

(51) **Int. Cl.**

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(52) **U.S. Cl.**

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11 Claims, 4 Drawing Sheets

