



US009303369B1

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

(10) **Patent No.:** **US 9,303,369 B1**
(45) **Date of Patent:** **Apr. 5, 2016**

(54) **EMBEDDING PHOTOCATALYTIC TITANIUM DIOXIDE IN ASPHALT SURFACES TO REDUCE POLLUTANTS VIA PHOTOCATALYTIC REACTIONS**

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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 0 days.

(21) Appl. No.: **14/557,933**

(22) Filed: **Dec. 2, 2014**

Related U.S. Application Data

(63) Continuation-in-part of application No. 14/207,387, filed on Mar. 12, 2014, now Pat. No. 8,899,871.

(60) Provisional application No. 61/780,365, filed on Mar. 13, 2013.

(51) **Int. Cl.**
E01C 11/00 (2006.01)
E01C 23/06 (2006.01)

(52) **U.S. Cl.**
CPC **E01C 11/005** (2013.01); **E01C 23/06** (2013.01)

(58) **Field of Classification Search**
CPC E01C 11/005; E01C 23/06
USPC 404/17, 31, 75; 502/350
See application file for complete search history.

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(57) **ABSTRACT**

Methods for embedding photocatalytic titanium dioxide in asphalt surfaces to reduce pollutants via photocatalytic reactions include applying an amount of an asphalt surface treatment compound to an upper surface of the asphalt surface, the asphalt surface treatment compound including a mixture of a liquid carrier compound with a titanium dioxide (TiO₂) photocatalyst.

12 Claims, 3 Drawing Sheets

