US 20100273193A1

(19) **United States**

(12) **Patent Application Publication**

Walter et al.

(10) **Pub. No.: US 2010/0273193 A1**

(43) **Pub. Date: Oct. 28, 2010**

(54) **TRIACETONE TRIPEROXIDE AND DIACETONE DIPEROXIDE DERIVATIVES, METHOD FOR THE PREPARATION AND USE THEREOF**

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(21) Appl. No.: **12/767,305**

(22) Filed: **Apr. 26, 2010**

(30) **Foreign Application Priority Data**

Apr. 27, 2009 (DE) 10 2009 002 652.5

Publication Classification

(51) **Int. Cl.**

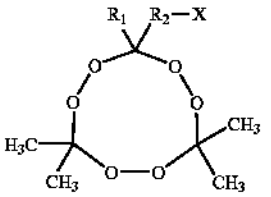
G01N 33/53	(2006.01)
C07D 323/00	(2006.01)
C07D 405/12	(2006.01)
C07D 323/04	(2006.01)
C07K 14/765	(2006.01)
C07K 14/77	(2006.01)
C12N 9/96	(2006.01)
C07H 21/04	(2006.01)
C07K 16/44	(2006.01)

(52) **U.S. Cl.** **435/7.92**; 549/352; 548/517; 549/367; 530/363; 530/367; 435/188; 536/23.1; 530/388.9; 530/389.8

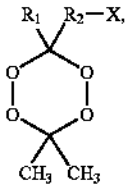
(57) **ABSTRACT**

This disclosure is drawn to a triacetone triperoxide derivative in accordance with the general formula (I) and a diacetone diperoxide derivative in accordance with the general formula (II)

(I)



(II)



wherein R_1 is a hydrogen residue or an optionally halogenated or perhalogenated C_1 to C_5 alkyl group, R_2 represents a linker molecule, and X represents a reactive or activatable group. A method for the preparation of the TATP or DADP derivatives and the use thereof as antigen for the preparation of TATP- or DADP-specific antibodies or other binders is also disclosed. The antibodies are preferably used in a biosensor for the detection of TATP or DADP in air.