US 20180230408A1

(19) **United States**

(12) **Patent Application Publication** (10) **Pub. No.: US 2018/0230408 A1**

Myntti (43) **Pub. Date: Aug. 16, 2018**

(54) **ANTIMICROBIAL COMPOSITION HAVING EFFICACY AGAINST ENDOSPORES**

(71) Applicant: **Next Science IP Holdings Pty Ltd**, Sydney, NSW (AU)

(72) Inventor: **Matthew Franco Myntti**, St. Augustine, FL (US)

(73) Assignee: **Next Science IP Holdings Pty Ltd**, Sydney, NSW (AU)

(21) Appl. No.: **15/751,076**

(22) PCT Filed: **Aug. 5, 2016**

(86) PCT No.: **PCT/US16/45905**

§ 371 (c)(1),
(2) Date: **Feb. 7, 2018**

Related U.S. Application Data

(60) Provisional application No. 62/202,644, filed on Aug. 7, 2015, provisional application No. 62/212,552, filed on Aug. 31, 2015.

Publication Classification

(51) **Int. Cl.**

C11D 3/386	(2006.01)
C11D 3/48	(2006.01)
C11D 3/43	(2006.01)
C11D 3/00	(2006.01)
C11D 1/83	(2006.01)

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

CPC ***C11D 3/38636*** (2013.01); ***C11D 3/48*** (2013.01); ***C11D 1/83*** (2013.01); ***C11D 3/0047*** (2013.01); ***C11D 3/43*** (2013.01)

(57) **ABSTRACT**

A sporicidal composition has a moderately low pH and includes a glycosidase and the dissocia-tion product of at least one inorganic oxidizing agent. High effective solute concentrations can enhance the efficacy of the composition. The composition can be applied to a surface and allowed to absorb into an endospore, ultimately killing at least some of those bacteria in mature endospore form. Surfaces to be treated include inanimate (hard) surfaces via cleaning and medical devices such as endoscopes, typically via immersion.