



US 20240409507A1

(19) **United States**

(12) **Patent Application Publication**
MORONE et al.

(10) **Pub. No.: US 2024/0409507 A1**

(43) **Pub. Date: Dec. 12, 2024**

(54) **NOVEL PHOTOINITIATORS**

Publication Classification

(71) Applicant: **IGM RESINS ITALIA S.R.L.**, Milano
(MI) (IT)

(51) **Int. Cl.**

C07C 319/12 (2006.01)

C07C 319/28 (2006.01)

C09D 4/00 (2006.01)

C09D 11/037 (2006.01)

C09D 11/101 (2006.01)

(72) Inventors: **Marika MORONE**, Lipomo (CO) (IT);
Vincenzo RAZZANO, Bussero (MI)
(IT); **Stefan Jean Yves Marie VAN**
DEN BRANDEN, Milan (MI) (IT)

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

CPC **C07C 319/12** (2013.01); **C07C 319/28**

(2013.01); **C09D 4/00** (2013.01); **C09D 11/037**

(2013.01); **C09D 11/101** (2013.01); **C07C**

2601/16 (2017.05)

(21) Appl. No.: **18/698,737**

(22) PCT Filed: **Aug. 4, 2022**

(86) PCT No.: **PCT/EP2022/071937**

§ 371 (c)(1),

(2) Date: **Apr. 4, 2024**

(57)

ABSTRACT

The present invention relates to novel photoinitiators having improved performances and to their use in photopolymerization compositions. The invention also relates to a process for the photopolymerization of compositions comprising said photoinitiators as well as their use in articles of manufacture, including printed, coated, and fabricated assemblies.

(30) **Foreign Application Priority Data**

Oct. 8, 2021 (IT) 102021000025868