



US 20250051686A1

(19) **United States**

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

(10) **Pub. No.: US 2025/0051686 A1**

(43) **Pub. Date: Feb. 13, 2025**

(54) **SURFACTANTS FOR CLEANING PRODUCTS**

(71) Applicant: **AdvanSix Resins & Chemicals LLC**,
Parsippany, NJ (US)

(72) Inventors: **Edward Asirvatham**, Chatham, NJ
(US); **Kavssery Parameswaran**
Ananthapadmanabhan, Loveland, OH
(US); **Harshita Kumari**, Cincinnati,
OH (US); **Ramana Reddy Mittapalli**,
Cincinnati, OH (US); **Suchitra**
Dilipkumar Panigrahi, Cincinnati, OH
(US)

(21) Appl. No.: **18/795,170**

(22) Filed: **Aug. 5, 2024**

Related U.S. Application Data

(60) Provisional application No. 63/531,198, filed on Aug.
7, 2023.

Publication Classification

(51) **Int. Cl.**
C11D 1/62 (2006.01)
C07F 7/08 (2006.01)

C11D 1/835 (2006.01)

C11D 3/37 (2006.01)

C11D 3/386 (2006.01)

C11D 3/395 (2006.01)

C11D 3/43 (2006.01)

C11D 3/48 (2006.01)

C11D 10/04 (2006.01)

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

CPC **C11D 1/62** (2013.01); **C07F 7/0872**
(2013.01); **C11D 1/835** (2013.01); **C11D 3/37**
(2013.01); **C11D 3/386** (2013.01); **C11D**
3/3951 (2013.01); **C11D 3/43** (2013.01); **C11D**
3/48 (2013.01); **C11D 10/045** (2013.01); **C11D**
2111/12 (2024.01); **C11D 2111/14** (2024.01)

(57)

ABSTRACT

Surfactants for use in the formulation of detergents, foaming agents, emulsifiers, and degreasers. Some aspects of the disclosure include formulations suitable for cleaning and/or condition fabrics including upholstery. Some formulations are suitable for in home or commercial dry cleaning. Some of the formulations may be suitable for cleaning hard surfaces including plastic surfaces and surfaces with food contact. Certain of the other formulations may be suitable for cleaning surfaces used in food processing, food stuff themselves, and in surfaces of healthcare settings.

