US 20230231935A1

(19) **United States**

(12) **Patent Application Publication** (10) **Pub. No.: US 2023/0231935 A1**

RAJANI et al. (43) **Pub. Date: Jul. 20, 2023**

(54) **SYSTEM AND METHOD OF DYNAMIC AND SCALABLE IOT FRAMEWORK**

(71) Applicant: **Jio Platforms Limited**, Ahmedabad (IN)

(72) Inventors: **Vishal RAJANI**, Mumbai (IN); **Wai Yin YEE**, Mumbai (IN); **Mahesh JENA**, Navi Mumbai (IN); **Nitin AGARWAL**, Navi Mumbai (IN); **Prateek AGARWAL**, Navi Mumbai (IN)

(73) Assignee: **Jio Platforms Limited**, Ahmedabad (IN)

(21) Appl. No.: **18/145,320**

(22) Filed: **Dec. 22, 2022**

Related U.S. Application Data

(63) Continuation of application No. 17/138,995, filed on Dec. 31, 2020, now Pat. No. 11,558,488.

(30) **Foreign Application Priority Data**

Dec. 31, 2019 (IN) 201921054703

Publication Classification

(51) **Int. Cl.**

H04L 67/60	(2022.01)
H04W 12/06	(2021.01)
H04W 76/10	(2018.01)
G16Y 40/00	(2020.01)
H04W 4/70	(2018.01)

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

CPC ***H04L 67/60*** (2022.05); ***H04W 12/06*** (2013.01); ***H04W 76/10*** (2018.02); *G16Y 40/00* (2020.01); *H04W 4/70* (2018.02)

(57) **ABSTRACT**

A method and a system for providing one or more services to one or more user devices in an IoT network in a scalable M2M (Machine to Machine) framework. The method comprises receiving a connection request from the one or more user devices [**202**] at a load balance of the IoT network, the connection request comprises at least a username comprising a cluster identifier. The load balancer [**204**] determines a cluster identifier based on the connection request and identifies at least one target cluster from the one or more clusters [**206**], said target cluster being associated with the identifier cluster identifier. The load balancer [**204**] routes the connection request to the at least one target cluster to provide the one or more services to the one or more user devices [**202**].