



US 20230231821A1

(19) **United States**

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

(10) **Pub. No.: US 2023/0231821 A1**

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

(54) **DISPLAY APPARATUS AND OPERATING METHOD THEREOF**

(30) **Foreign Application Priority Data**

Jan. 17, 2022 (KR) 10-2022-0006829

(71) Applicant: **SAMSUNG ELECTRONICS CO., LTD.**, Suwon-si (KR)

Publication Classification

(72) Inventors: **Eunsang JEON**, Suwon-si (KR); **Jieun KIM**, Suwon-si (KR); **Jinhong KIM**, Suwon-si (KR); **Yeseul PARK**, Suwon-si (KR); **Seokjae OH**, Suwon-si (KR); **Bongsung YU**, Suwon-si (KR); **Byoungho YUN**, Suwon-si (KR); **Seunghoon LEE**, Suwon-si (KR); **Yuseong JEON**, Suwon-si (KR); **Sejun HAN**, Suwon-si (KR)

(51) **Int. Cl.**

H04L 51/04 (2006.01)

H04L 67/146 (2006.01)

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

CPC **H04L 51/04** (2013.01); **H04L 67/146** (2013.01)

(21) Appl. No.: **18/105,376**

(22) Filed: **Feb. 3, 2023**

Related U.S. Application Data

(63) Continuation of application No. PCT/KR2023/000376, filed on Jan. 9, 2023.

(57) **ABSTRACT**

A method of operating a display apparatus includes: obtaining display apparatus state information indicating data processing performance of the display apparatus, transmitting the display apparatus state information to a server that provides a chat service, receiving chat messages transmitted from the server according to a message throughput determined based on the display apparatus state information, and outputting the received chat messages.

