



(54) **CONTEXTUAL COLLABORATION FOR  
CONFERENCING SYSTEMS, METHODS,  
AND DEVICES**

(71) Applicant: **META PLATFORMS, INC.**, Menlo  
Park, CA (US)

(72) Inventors: **Aditya Satyanarayana Goteti**,  
Cupertino, CA (US); **Nabeel Ahmed**,  
San Jose, CA (US)

(21) Appl. No.: **18/504,061**

(22) Filed: **Nov. 7, 2023**

**Related U.S. Application Data**

(60) Provisional application No. 63/434,405, filed on Dec.  
21, 2022.

**Publication Classification**

(51) **Int. Cl.**  
**H04L 67/54** (2006.01)  
**H04L 65/403** (2006.01)

(52) **U.S. Cl.**  
CPC ..... **H04L 67/54** (2022.05); **H04L 65/403**  
(2013.01)

(57) **ABSTRACT**

Systems and methods for providing contextual collaborating  
for conferencing are disclosed. In various examples, a  
system may include a computing device that may establish  
a remote network connection with a conferencing device  
configured to enable at least one of audio or visual commu-  
nication between a group of participants. The computing  
device may communicate, via radio signals, with a device  
associated with, on, and/or near a first participant. The  
computing device may determine a location of the device  
based on received radio signals and may authenticate the  
first participant with the conferencing device to enable  
communication between the first participant and the group  
of participants. The computing device may also determine,  
in real time, an interaction of the first participant with the  
conferencing device, based on the received radio signals  
emitted from the device.

```
graph TD
    subgraph Hub_110 [Hub 110]
        direction TB
        L210[Location Module 210]
        D220[Device ID Module 220]
        M230[Mapping Module 230]
    end

    LD215[Local Device 215]
    LD215 -.->|250| Hub_110

    CS260[Conferencing System 260]
    Hub_110 -- 205 --> CS260

    subgraph CS260_Box [ ]
        direction TB
        subgraph Row1 [ ]
            direction LR
            A265[Audio I/O 265]
            V270[Video I/O 270]
        end
        subgraph Row2 [ ]
            direction LR
            AS275[Authentication/Security 275]
            M280[Mapping 280]
        end
        subgraph Row3 [ ]
            direction LR
            C285[Communication 285]
            N290[Network 290]
        end
    end

    M280 <--> RD295[Remote Device 295]
```