

US010142485B1

(12) United States Patent Haus et al.

(10) Patent No.: US 10,142,485 B1

(45) **Date of Patent:** Nov. 27, 2018

(54) CONFERENCE CALL MUTE MANAGEMENT

(71) Applicant: Capital One Services, LLC, McLean, VA (US)

(72) Inventors: **Oron Haus**, Fairfax, VA (US); **Rudolph Wolfs**, Naples, FL (US)

(73) Assignee: Capital One Services, LLC, McLean,

VA (US)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35

U.S.C. 154(b) by 0 days.

(21) Appl. No.: 16/040,162

(22) Filed: Jul. 19, 2018

(51) Int. Cl.

H04M 3/56 (2006.01) **H04L 29/06** (2006.01)

(52) U.S. Cl.

CPC **H04M 3/568** (2013.01); **H04L 65/4038** (2013.01); **H04M** 2250/62 (2013.01)

(58) Field of Classification Search

CPC ... H04L 29/06027; H04M 3/56; H04M 3/567; H04M 3/568; H04M 2203/5018; H04M 2203/5063; H04M 2201/40

See application file for complete search history.

(56) References Cited

U.S. PATENT DOCUMENTS

6,212,275 B1 4/2001 Akhteruzzaman 7,099,825 B1 8/2006 Cook 8,060,366 B1 11/2011 Maganti et al.

Bl	7/2016	Yin et al.
B1	5/2017	Nemala et al.
B2	9/2017	Chintala
A1	7/2003	Bradley et al.
A1*	2/2008	Aldrey H04M 3/42161
		379/202.01
A1*	3/2010	Coleman H04L 12/1818
		379/202.01
A1	3/2010	Hanson et al.
A1	2/2013	McDysan et al.
A1	4/2014	Herger et al.
A1	7/2015	Krack et al.
	B1 B2 A1 A1* A1* A1 A1 A1	B1 5/2017 B2 9/2017 A1 7/2003 A1* 2/2008 A1* 3/2010 A1 3/2010 A1 2/2013 A1 4/2014

OTHER PUBLICATIONS

Jens Meggers, "Rid Your Meetings of Dogs and Doorbells", https://blogs.cisco.com/collaboration/cut-background-noise-out-of-meetings, Aug. 10, 2017, 17 pages.

* cited by examiner

Primary Examiner — Thjuan K Addy (74) Attorney, Agent, or Firm — Harrity & Harrity, LLP

(57) ABSTRACT

A device receives call data associated with a conference call between a plurality of users. The call data includes at least two of: data identifying each of the plurality of users, data identifying user activity associated with at least one user in the plurality of users, and conference call metadata associated with the conference call. The call muting platform receives voice data associated with the conference call. The voice data is associated with at least one vocal utterance associated with the plurality of users. The call muting platform provides the call data and the voice data to a second device, and receives mute data from the second device. The mute data indicates whether to mute or un-mute a particular user of the plurality of users.

20 Claims, 7 Drawing Sheets



