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Barak et al.

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(54) **DYNAMIC COMMUNICATION ROUTING
BASED ON CONSISTENCY WEIGHTING
AND ROUTING RULES**

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(56) **References Cited**

U.S. PATENT DOCUMENTS

6,195,426 B1 * 2/2001 Bolduc H04M 3/4285
379/265.02
9,247,066 B1 * 1/2016 Stec H04M 3/5235
(Continued)

OTHER PUBLICATIONS

International Search Report and Written Opinion of the Interna-
tional Searching Authority for PCT Application No. PCT/US2016/
035535, dated Aug. 8, 2016, 11 pages.

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(57) **ABSTRACT**

Systems and methods for dynamic communication routing
based on consistency weighting and routing rules are dis-
closed. A computing device can receive a communication
including content data. The communication can be stored in
a queue position of a primary queue. For example, the
primary queue can include a plurality of queue positions for
storing communications. The communication can be
retrieved from the queue position of the primary queue and
analyzed. In some instances, analyzing can include parsing the
content data for a keyword. A keyword can correspond
to a secondary queue. When the keyword is identified in the
communication, the communication can be stored in the
secondary queue that corresponds to the keyword. A termi-
nal device associated with the secondary queue can be
identified. A retrieval request to access the communication
from the secondary queue can be received, and the commu-
nication can be routed to the terminal device.

23 Claims, 21 Drawing Sheets

