

**TELEPHONE NUMBER INVESTIGATION DEVICE, TELEPHONE NUMBER
INVESTIGATION METHOD, TELEPHONE NUMBER INVESTIGATION
PROGRAM, AND TELEPHONE NUMBER INVESTIGATION INFORMATION
PROVISION SYSTEM**

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ABSTRACT

10 To realize research on the usage status of a telephone
number in an IMS network, an NGN network, and an IP network
without ringing an incoming call by transmitting a specific
SIP message that causes call rejection using an IMS
interconnection interface or the like for interconnection
between carriers. To determine the usage status of telephone
numbers regardless of the type of the destination network.

15 A telephone number research device (10) is connected
via an NGN network to a telephone connected to at least a
destination network that is an IMS network or a VoIP network,
and comprises a message exchange controller (12) configured
to add a first SDP parameter to an INVITE request for the
20 telephone to be researched, send the INVITE request to the
destination network selected by the NGN network (20), and
receive a first response message from the destination network.
The message exchange controller (12) determines that the
destination network is the VoIP network when the first
25 response message is "200 OK" or the first SDP parameter has
been converted, and determines that the destination network
is the IMS network when the first SDP parameter has not been
converted and the first response message includes a first
error code.

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[Figure 2]