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- (71) **Applicant (for all designated States except US): D.S.P. GROUP LTD.** [IL/IL]; 5 Shenkar Street, POB 2019, 46120 Herzliya (IL).
- (72) **Inventors; and**
- (75) **Inventors/Applicants (for US only): SHIRI, Effi** [IL/IL]; 8 Vinkler Street, 49721 Petah Tikva (IL). **ZMORA, Neta** [IL/IL]; 6 Ha-Seora, P.O.B. 840, 42810 Tzur Moshe (IL).
- (74) **Agent: REINHOLD COHN AND PARTNERS;** P.O.B. 4060, 61040 Tel-aviv (IL).
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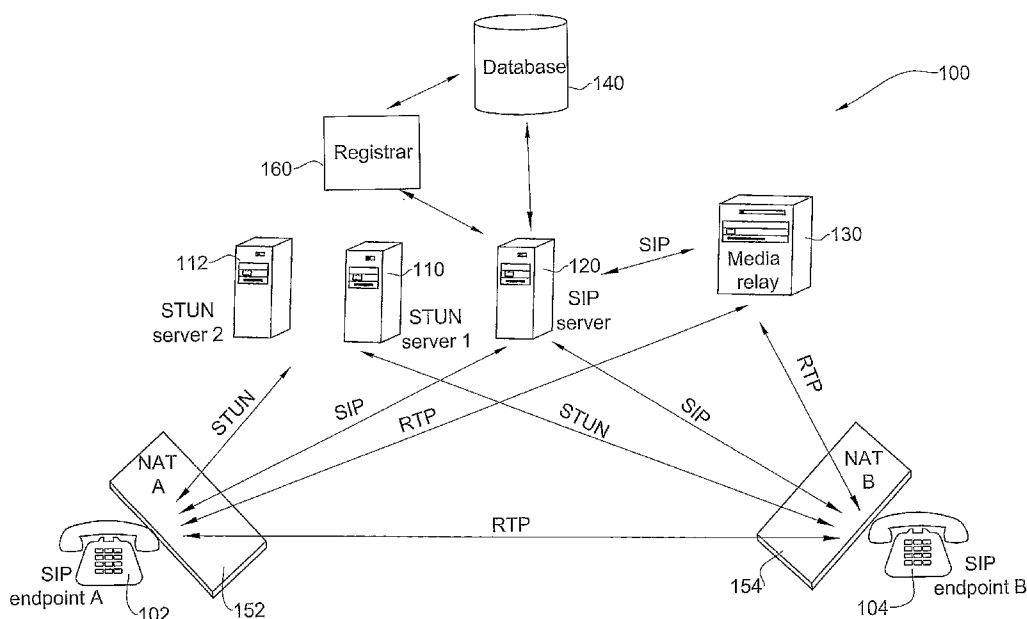
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- (54) **Title:** ROUTING PATH OPTIMIZATION BETWEEN SIP ENDPOINTS ACCORDING TO NAT TOPOLOGY



- (57) **Abstract:** Methods and systems for optimized routing of real time media session data between session initiation protocol SIP endpoints. In one embodiment of the invention, first and second SIP endpoints each provide notification of network address translation NAT topology thereof and based on the NAT topologies of the two endpoints, an SIP server decides whether to route media between the two endpoints via a direct path or via a media relay.

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## INTERNATIONAL SEARCH REPORT

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**A. CLASSIFICATION OF SUBJECT MATTER**

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According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

H04L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, INSPEC, PAJ, WPI Data

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

| Category* | Citation of document, with indication, where appropriate, of the relevant passages                                                                                                                                                                                                                                                                                                                                                                                                                                   | Relevant to claim No. |
|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| X         | <p>MELLOUK A ET AL: "A new methodology to adapt SIP Protocol for voice traffic transported over IP Network"</p> <p>TELECOMMUNICATIONS, 2005. AICT-ICIW '06. INTERNATIONAL CONFERENCE ON INTERNET AND WEB APPLICATIONS AND SERVICES/ADVANCED INTERNATIONAL CONFERENCE ON GUADELOPE, FRENCH CARIBBEAN 19-25 FEB. 2006, PISCATAWAY, NJ, USA, IEEE, 19 February 2006 (2006-02-19), pages 123-128, XP010898448</p> <p>ISBN: 0-7695-2522-9</p> <p>the whole document</p> <p style="text-align: center;">-----<br/>-/--</p> | 1-31                  |



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European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Riegler, Jörg

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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

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|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| A         | <p>BOULTON UBIQUITY SOFTWARE CORPORATION J<br/>ROSENBERG CISCO SYSTEMS C: "Best Current<br/>Practices for NAT Traversal for SIP"<br/>IETF STANDARD-WORKING-DRAFT, INTERNET<br/>ENGINEERING TASK FORCE, IETF, CH,<br/>vol. sipping, no. 2,<br/>October 2004 (2004-10), XP015027938<br/>ISSN: 0000-0004<br/>page 21 - page 36</p> <p>-----</p> | 1-31                  |