

(19) World Intellectual Property Organization
International Bureau(43) International Publication Date
23 August 2001 (23.08.2001)

PCT

(10) International Publication Number
WO 01/61921 A3(51) International Patent Classification⁷: **H04L 12/24**,
12/26

(21) International Application Number: PCT/US01/03598

(22) International Filing Date: 2 February 2001 (02.02.2001)

(25) Filing Language: English

(26) Publication Language: English

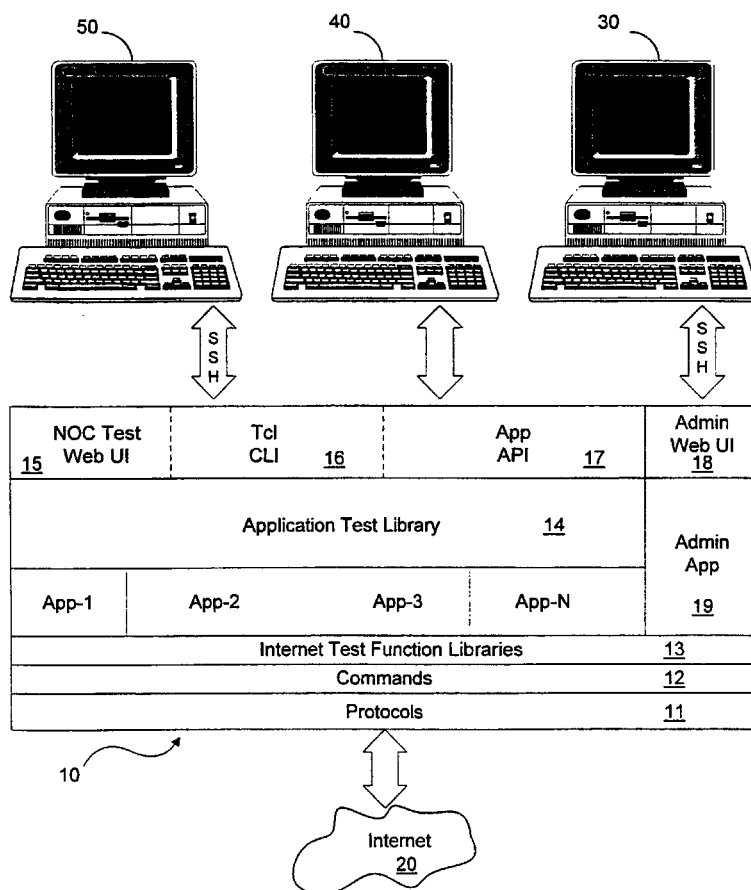
(30) Priority Data:
09/503,352 14 February 2000 (14.02.2000) US(71) Applicant (for all designated States except US): **TERADYNE, INC.** [US/US]; Legal Department, 321 Harrison Avenue, Boston, MA 02118 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **MCELHANEY,****Robert, E.** [US/US]; 48 East Pasture Road, Berwick, ME 03901 (US). **KAFFINE, David** [US/US]; 11 Moran Road, Billerica, MA 01862 (US). **HUGHES, Anthony, C.** [US/US]; 296 Payson Road, Belmont, MA 02178 (US). **MINCKLER, William** [US/US]; 104-3 Chestnut Street, Waltham, MA 02453 (US). **AGRAWAL, Neelesh** [IN/US]; Apartment 7A, 26 Beacon Street, Burlington, MA 01803 (US). **SCHMIDT, Peter, H.** [US/US]; 2 Ewell Avenue, Lexington, MA 02421 (US).(74) Agent: **WALSH, Edmund**; Teradyne, Inc., 321 Harrison Avenue, Boston, MA 02118 (US).(81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.

[Continued on next page]

(54) Title: NETWORK FAULT ANALYSIS TOOL



(57) Abstract: A testing tool for Internet Service Provider (ISP) network engineers which is used to diagnose network faults, characterize network performance and evaluate new equipment and software releases. The tool can be used to schedule and run proactive tests to identify network problems before subscribers are affected. Further, the tool can be used to provide testing on demand to quickly isolate the root cause of a problem identified by the tool or by network management systems or subscribers. The tool is topology independent and thus does not have to be reconfigured as the network changes. The tool only sends traffic as directed by the network engineer and thus does not generate undesirable heavy network traffic loads, unless such a heavy network loads are desired by the network engineer.



(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

(88) Date of publication of the international search report:

7 March 2002

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

Published:

— with international search report