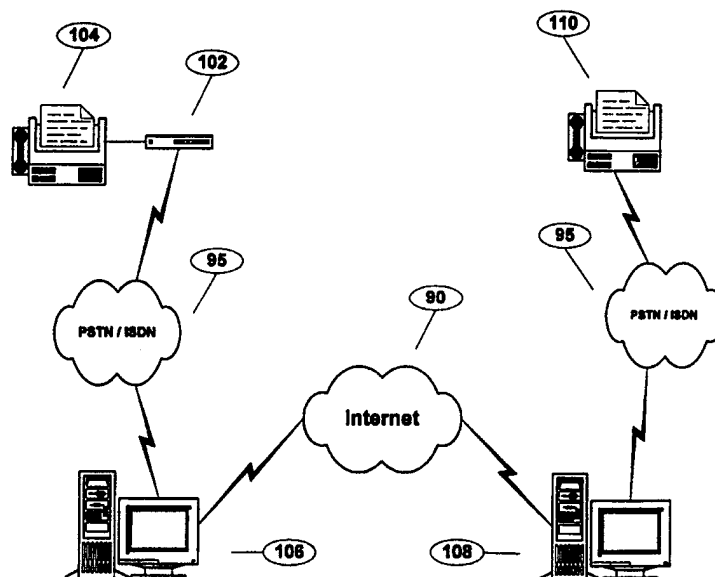




## INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

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<b>(21) International Application Number:</b> PCT/IL98/00290 <b>(22) International Filing Date:</b> 18 June 1998 (18.06.98) <b>(30) Priority Data:</b> 08/878,991 19 June 1997 (19.06.97) US <b>(71) Applicant (for all designated States except US):</b> CMR COMMUNICATIONS LTD. [IL/IL]; Yad Harutzim Street 10, 44425 Kfar-Saba (IL). <b>(72) Inventors; and</b> <b>(75) Inventors/Applicants (for US only):</b> VERED, Hagai [IL/IL]; Maklis Street 10, 49558 Petach Tikva (IL). BROWN, Moshe [IL/IL]; Hibat Zion 13, 43381 Raanana (IL). <b>(74) Agent:</b> EITAN, PEARL, LATZER & COHEN-ZEDEK; Advocates, Notaries and Patent Attorneys, Lumir House, Maskit Street 22, 46733 Herzelia (IL).		<b>(81) Designated States:</b> AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SZ, 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), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG).  <b>Published</b> <i>With international search report.</i> <i>Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i>  <b>(88) Date of publication of the international search report:</b> 3 June 1999 (03.06.99)

**(54) Title:** A SYSTEM AND METHOD FOR REAL-TIME FACSIMILE TRANSMISSION

**(57) Abstract**

A system and method for real-time transmission of facsimile (fax) images between an originating fax machine (104) and a destination fax machine (110), via an Internet Protocol (IP) network (90) is provided. The method includes establishing a local communication gateway (106) and at least one termination gateway (108), establishing a communication link via a Fax Protocol Enhancer (102) between the originating fax machine (104) and the destination fax machine (110), transmitting a fax image and on receipt of the fax image, the destination fax machine (110) transmits a status report to the originating fax machine (104). The local gateway (106) and termination gateway (106 and 108) has its own identifying IP address. The Fax Protocol Enhancer (102) ensures that an open line is maintained between the originating fax machine (104) and the local communication gateway (106) and thence to the destination fax machine (110).

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# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/IL98/00290

## A. CLASSIFICATION OF SUBJECT MATTER

IPC(6) : H04N 1/00, 1/32; G06F 15/16

US CL : 358/400, 402, 442; 395/200.34

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)

U.S. : Please See Extra Sheet.

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 practicable, search terms used)

APS

search terms: fax or facsimile, real time or realtime, internet or ISDN or PSTN

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X ---- Y	US 5,555,100 A (BLOOMFIELD et al) 10 September 1996, see entire document.	1-4, 8, 17-20, 22-30 ----- 9, 10
X ---- Y	WO 96/41463 A (GESHWIND) 19 December 1996, see entire document.	31-36 ----- 1, 2, 14, 17, 20
Y	US 5,638,428 A (BERKU et al) 10 June 1997, columns 3 through 7.	9, 10, 22-30
X, P	US 5,739,919 A (LEE et al) 14 April 1998, columns 6 through 12, columns 27 through 29, and columns 48, 64, and 65.	1, 3-8, 11-25, 27-30

☒ Further documents are listed in the continuation of Box C. ☐ See patent family annex.

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# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/IL98/00290

## C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y, P	WO 97/26753 A (WILKES et al) 24 July 1997, see entire document.	1, 2, 14, 17, 20, 22, 24, 27, 31, 35
Y, P	US 5,761,284 A (RANALLI et al) 02 June 1998, columns 3 through 8.	22-30
X, E -----	US 5,805,298 A (HO et al) 08 September 1998, columns 3 through 7.	31-33, 35, 36 -----
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Y, E	US 5,796,394 A (WICKS et al) 18 August 1998, columns 3 through 7.	1, 17, 31, 35
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A, P	US 5,673,118 A (KONDO et al) 30 September 1997, columns 2 through 6.	22, 27
A, P	US 5,712,712 A (SAYWARD) 27 January 1998, columns 5 through 15.	22-30
A, P	JP 10-126,551 A (MORI) 15 May 1998, abstract.	1, 17
A, P	JP 10-145,545 A (MEGUMI) 29 May 1998, abstract.	1, 17
A, E	JP 10-173,899 A (SATO) 26 June 1998, abstract.	1, 17
A, E	US 5,812,278 A (TOYODA et al) 22 September 1998, columns 10 through 28.	31-36

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/IL98/00290

## B. FIELDS SEARCHED

Minimum documentation searched

Classification System: U.S.

358/400, 402, 403, 404, 442, 443, 444, 447, 468; 395/200.31, 200.34, 200.36, 200.38, 200.43, 200.47, 200.48, 200.49, 200.74; 379/90.01, 93.24, 100.01