



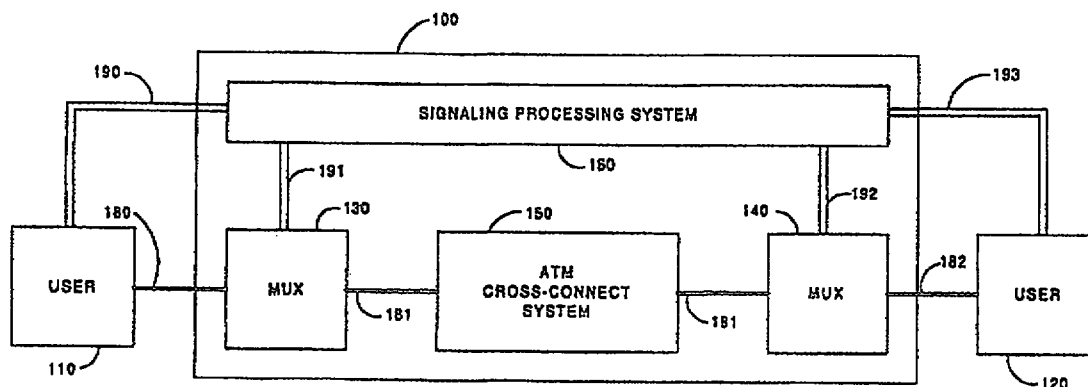
PCT

WORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶ : H04L 12/64	A1	(11) International Publication Number: WO 97/09807 (43) International Publication Date: 13 March 1997 (13.03.97)
(21) International Application Number: PCT/US96/14133 (22) International Filing Date: 3 September 1996 (03.09.96) (30) Priority Data: 08/525,897 8 September 1995 (08.09.95) US (71) Applicant: SPRINT COMMUNICATIONS COMPANY, L.P. [US/US]; 8140 Ward Parkway, Kansas City, MO 64114-0417 (US). (72) Inventor: CHRISTIE, Joseph, Michael; 536 Green Avenue, San Bruno, CA 94066 (US). (74) Agent: DICKEY, Steven, R.; Hovey, Williams, Timmons & Collins, Suite 400, 2405 Grand Boulevard, Kansas City, MO 64108 (US).	(81) Designated States: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, UZ, VN, ARIPO patent (KE, LS, MW, SD, SZ, UG), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, 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). Published With international search report.	

(54) Title: BROADBAND TELECOMMUNICATIONS SYSTEM



(57) Abstract

A system (100) for providing virtual connections through an ATM interworking multiplexer (130, 140) on a call-by-call basis. A signaling processor (160) receives signaling for a call and selects the virtual connection for the call. The signaling processor (160) generates new signaling that identifies the selection and transfers the new signaling to the ATM interworking multiplexer (130, 140) that accepted the access connection for the call. The multiplexer (130, 140) converts user information from the access connection into ATM cells for transmission over the virtual connection in accord with the new signaling.