

PCT

WORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau



200000 317-8
1105

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 6 : H04M 3/36, 15/00	A1	(11) International Publication Number: WO 99/05844
		(43) International Publication Date: 4 February 1999 (04.02.99)

(21) International Application Number: PCT/GB98/02078

(22) International Filing Date: 15 July 1998 (15.07.98)

(30) Priority Data:
9715497.5 22 July 1997 (22.07.97) GB

(63) Related by Continuation (CON) or Continuation-in-Part (CIP) to Earlier Application
US 09/008,654 (CIP)
Filed on 16 January 1998 (16.01.98)

(71) Applicant (for all designated States except US): BRITISH TELECOMMUNICATIONS PUBLIC LIMITED COMPANY [GB/GB]; 81 Newgate Street, London EC1A 7AJ (GB).

(72) Inventor; and

(75) Inventor/Applicant (for US only): EDWARDS, Alexander, Fraser, Miles [GB/GB]; 8 Hillhouse Road, Ipswich, Suffolk IP3 8AP (GB).

(74) Agent: BRADLEY, David, William; BT Group Legal Services, Intellectual Property Dept., Holborn Centre, 8th floor, 120 Holborn, London EC1N 2TE (GB).

(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, 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, GW, ML, MR, NE, SN, TD, TG).

Published

With international search report.

(54) Title: FRAUD MONITORING SYSTEM

(57) Abstract

In order to detect fraudulent or potentially fraudulent usage of a telecommunications network, each call connected by way of one of the digital main switching units of the network (3a to 3c) has an associated billing record transferred to a fraud management system (4). The fraud management system compares the origin and destination of the call with a known usage pattern for the originator and, if other indications are that the call is of a fraudulent nature, and the call deviates from the known usage pattern an alarm can be forwarded to an operator. The user profile used to determine normal calling behaviour is updated over a period of time in respect of calls determined as not fraudulent. An initial user profile may be generated from historic billing records.

