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(72) Inventor; and

(71) Applicant (for all designated States except US): LEE, Chooi Tian [MY/MY]; A-20-03A, Rhythm Avenue, Persiaran Kewajipan, USJ 19, 47620 Uep Subang Jaya, Selangor (MY).

(74) Agent: LEONG, Jin Hoong; IP Rights (M) Sdn Bhd, 7M, Biz Avenue, Neo Cyber, Lingkaran Cyber Point Barat, 63000 Cyberjaya, Selangor (MY).

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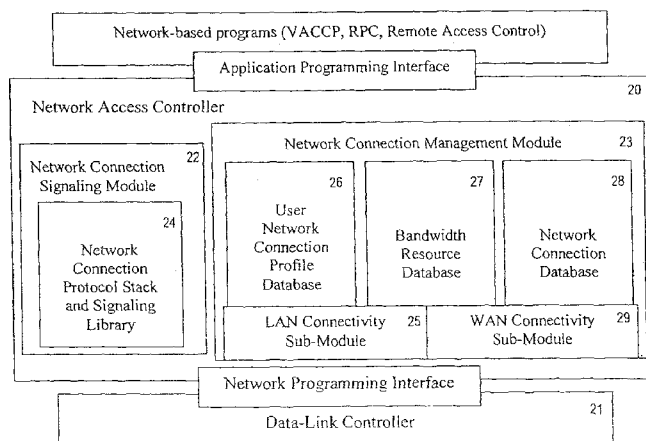
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(54) Title: APPARATUS AND METHODS FOR MULTIMODE INTERNETWORKING CONNECTIVITY

Fig. 6

(57) **Abstract:** This invention presents a digital network system able to concurrently provide multimode internetworking connectivity session over a plurality of disparate network systems, from User Premise Device (UPD) to NSP, CSP or ASP network gateways, and providing a plurality of internetwork environment. The invention also provide the methods for the support of the following internetworking connectivity services, concurrently:- a) public and shared-media Internet services; b) MPLS-enabled and IP-based Virtual Private Network (VPN) services; c) hybrid network system connection sessions among disparate connection-oriented and connectionless network systems; and d) end-to-end, connection-oriented, and circuit-switching connection sessions for VMI-based application services through digital transceiver, be it xDSL or VCC-based land-line or wireless medium.