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- (71) **Applicant: BITDEFENDER IPR MANAGEMENT LTD** [CY/CY]; 58-61 Acropolis ave. 3rd floor, office 302, Nicosia, 2012 (CY).
- (72) **Inventors: BOCA, Paul Daniel**; Str. Agricultorilor nr. 20, bl. D4, sc. 2, ap. 22, Judetul Cluj, 400523 Cluj-Napoca (RO). **CRACIUN, Marius**; Sos. Nicolae Titulescu nr. 18, bl. 23, sc. B, ap. 77, Sector 1, 011142 Bucuresti (RO). **CERNAT, Constantin Daniel**; Str. Ariesul Mare nr. 7, bl. 31, sc. D, et. 1, ap. 33, Sector 6, 060792 Bucuresti (RO). **BUDA, Adrian**; Calea Republicii nr. 5, bl. 5, sc. B, et. 2, ap. 10, Judetul Bacau, 600318 Bacau (RO).

(74) **Agent: TULUCA, Doina**; Bd. Lacul Tei nr. 56, bl 19, sc B, ap 52, sector 2, 020392 Bucuresti (RO).

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(54) **Title:** SYSTEMS AND METHODS OF CONTROLLING INTERNET ACCESS USING ENCRYPTED DNS

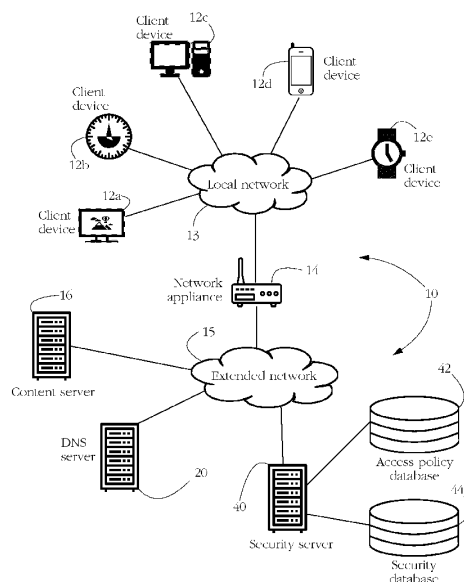


FIG. 1

(57) **Abstract:** Described systems and methods enable protecting client devices (e.g., personal computers and IoT devices) implementing encrypted DNS protocols against harmful or inappropriate Internet content. A DNS proxy intercepts an attempt to establish an encrypted communication session between a client device and a DNS server. Without decrypting any communications, some embodiments of the DNS proxy determine an identifier of the respective session and an identifier of the client device, and send a query tracer connecting the session identifier with the client identifier to a security server. In some embodiments, the security server obtains the domain name included in an encrypted DNS query from the DNS server and instructs the DNS server to allow or block access of the client device to the respective Internet domain according to a device- and/or user-specific access policy.

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