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(19) **United States**(12) **Patent Application Publication** (10) **Pub. No.: US 2023/0231870 A1**
St. Pierre (43) **Pub. Date: Jul. 20, 2023**(54) **FORMULATING RESPONSES FOR
SLOWING REQUESTS FROM MALICIOUS
DOMAIN NAME SYSTEM (DNS) CLIENTS**(52) **U.S. Cl.**
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(US)(57) **ABSTRACT**(72) Inventor: **Brian St. Pierre**, Acworth, NH (US)(73) Assignee: **Arbor Networks, Inc.**, Westford, MA
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A method of delaying computer network clients from sending DNS queries. The method includes receiving a DNS query from a client and consulting a client record in a client record database and/or a flow record in a flow record database storing information about the flow including about one or more previous DNS queries and/or responses in the flow. The method further includes formulating a response to the DNS query as a function of the information about the client and/or the information about the flow, updating the client record with information about the client and/or the flow record with information about the DNS query and the response as formulated, and transmitting the response as formulated to the client. The DNS query includes a question and the response is intentionally defective or incomplete and causes the client to be delayed in sending another DNS query as part of an attack.

