



(54) **SYSTEM AND METHOD OF CREATING SYMMETRIC KEYS USING ELLIPTIC CURVE CRYPTOGRAPHY**

(71) Applicant: **SafeMoon US, LLC**, Pleasant Grove, UT (US)

(72) Inventors: **Lynn D Spraggs**, Vernon (CA); **Robert Spraggs**, Coldstream (CA)

(21) Appl. No.: **17/912,393**

(22) PCT Filed: **Sep. 14, 2022**

(86) PCT No.: **PCT/US22/43462**

§ 371 (c)(1),
(2) Date: **Mar. 23, 2023**

Related U.S. Application Data

(60) Provisional application No. 63/244,605, filed on Sep. 15, 2021.

Publication Classification

(51) **Int. Cl.**
H04L 9/08 (2006.01)

(52) **U.S. Cl.**
CPC **H04L 9/0841** (2013.01)

(57) **ABSTRACT**

A system for generating a symmetric key to allow the sharing of information between two entities, wherein the symmetric key is established from the private key of a first client and the public key of a second client and for use in a symmetric encryption methodology to encrypt information for transport to the second entity, allowing the second entity to form the same symmetric key to decrypt information with no key transport required.

