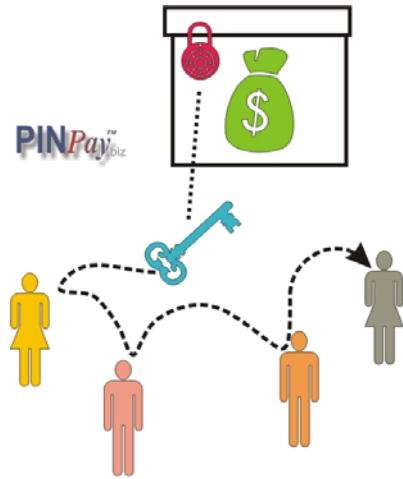




Anonymity Controlled (full to none) Online Payment Protocol

Payer sends payee the password for a number account where the money resides. Payee verifies the funds are there, changes the “lock” (the password), and hands over the new password to a third person, as a de-facto payment. The third person also changes the lock to the account, and passes on the password, when he needs to make an online payment. The account opener, and the account closer are known to the bank. All the traders in-between remain anonymous to each other, and the same vis-à-vis the bank. The bank will manage anonymity by a prospective policy of requiring a certain identification from the interim account holders. The authorities will fight crime with a warrant that will require an interim account holder to identify himself to claim the money. So the public at large will be able to do business on the Internet without the vulnerability presented by credit cards; merchants will get paid without sharing the take with Visa™, MasterCard™, and American Express™. The PINpay™ protocol is executed via software. Payer and payee only indicate the amount, and click their intent to transact.



Traders pass the key to the account, while the money stays.

PINpay™ is powered by PINprivate™ : a protocol that allows two strangers on the Internet to establish a temporary secret between them. Using one-way function payer and payee will delay any hacker hunting after the account password. The delay is sufficient for the payee to access the account, and switch the lock. PINprivate™ is *not* based on public-key cryptography. Payer and payee establish their shared short-lived secret on the fly, no prior contact is necessary.

PINpay™ and PINprivate™ are part of PINsuite™ which also features: PINpen™: quick and secure log-on via a graphic interface; PINplan™: scaleable log-on security adjustable to ultra sensitive network circumstances; PINplay™: insuring honesty in on-line gaming, non repudiation, fairplay, and PINproof™: authenticating checks, hand-written, and hand-signed documents and drawings. Patents granted and pending.