

Claim 1 of the US patent consists of 4 parts:

Purpose of the patent.

System setup.

Definition of coherent electronic cards.

Information flow in the system.

### 1. Purpose of the patent

The patent describes a method of transferring data securely from one computer system to another computer system by use of a coherent set of electronic cards.

### 2. System setup.

(OH-1)

In the system there must be two computer systems i.e. PCs or cellular phones. These computer systems must be connected to each other via some kind of data transmission line. This could be internet, telephone network or anything the like. Furthermore each of these computer systems must be connected to some kind of electronic card via a so called station or card reader.

Notice there are no limitations in the definition of a computer system. We believe that electronic devices containing a CPU, memory and I/O is to be considered a computer system. There are no limitations in the how the systems are connected. There are no limitations on where the card reader is located. This means that it could be integrated in the computer system, like a PCMCIA-slot.

### 3. Definition of coherent electronic cards.

(OH-2)

The cards in the system must be electronic cards. This applies to almost all cryptographic tokens such as chipcards, PCMCIA-cards and SmartDiskís.

(OH-3)

The cards have the ability of encryption/decryption using cryptographic keys and they must be coherent. Coherent means that it should be possible to encrypt data in one card such that the other card can decrypt the message.

Notice that with modern cryptosystems there is no difference between the methods of encryption and decryption.

#### 4. Information flow in the system.

(OH-4)

Data or at least some part of data transferred from first computer system to second computer system must follow a specific path:

Data is transferred from first computer system to the first card via the first card reader. In the card the data is encrypted using encryption keys.

Data is transferred in encrypted form from the first card to the first computer system via the card reader.

Data is transferred in encrypted form from the first computer system to the second computer system via the data transmission line.

Data is transferred in encrypted form from the second computer system to the second card via the card reader. In the card the data is decrypted using decryption keys.

The decrypted data is transferred from the second card to the second computer system.

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