

PROVISIONAL APPLICATION FOR PATENT COVER SHEET

This is a request for filing a PROVISIONAL APPLICATION FOR PATENT under 37 CFR 1.53(c).

Docket Number	032376-003	Type a plus sign (+) inside this box
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INVENTOR(s)/APPLICANT(s)

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TITLE OF THE INVENTION (280 characters max)

CARD SYSTEM AND METHOD

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ENCLOSED APPLICATION PARTS (check all that apply)

- Specification *Number of Pages* 30
 Small Entity Statement
 Drawing(s) *Number of Sheets* 6
 Other (specify) Claims 1-21, 6 pages; Abstract, 1 page

METHOD OF PAYMENT OF FILING FEES FOR THIS PROVISIONAL APPLICATION FOR PATENT (check one)

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The invention was made by an agency of the United States Government or under a contract with an agency of the United States Government.

- No.
 Yes, the name of the U.S. Government agency and the Government contract number are:

Respectfully submitted,

SIGNATURE Charles W. Mathis (Reg. No. 33096)

Date August 26, 1998

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Registration No. 24,970
 (if appropriate)

- Additional inventors are being named on separately numbered sheets attached hereto

occur the consumer has the task of persuading the credit card provider that fraud did indeed occur.

There is also the additional fear of being overcharged on a credit card. There are thus particular risks for those credit card holders who have relatively high
5 spending limits, in that if fraud should occur, it may be some considerable time before it is detected. One particular form of fraud referred to as "skimming" is particularly difficult to control. What happens is that the card holder proffers his or her card at an establishment to make a transaction, the relevant information is electronically and/or physically copied from the card and the card is subsequently
10 reproduced. This can be a particular problem with travelers particularly during an extensive period of travel as the fraudulent card may turn up in other places and it may be some considerable time before the fraud is detected.

For remote credit card use, the credit card holder has to provide details of name, master credit card number, expiration date and address and often many other
15 pieces of information for verification; the storing and updating of the information is expensive but necessary. This of itself is a considerable security risk as anybody will appreciate that this information could be used to fraudulently charge goods and services to the card holder's credit card account. Such fraudulent use is not limited to those people to whom the credit card information has been given legitimately, but
20 extends to anybody who can illegitimately obtain such details. A major problem in relation to this form of fraud is that the credit card may still be in the possession of the legitimate holder as these fraudulent transactions are taking place. This is often referred to as "compromised numbers" fraud. Indeed all this fraud needs is one dishonest staff member, for example in a shop, hotel or restaurant, to record the
25 credit card number. It is thus not the same as card theft.

The current approaches to the limiting of credit card fraud are dependent firstly on the theft of a card being reported and secondly elaborate verification systems whereby altered patterns of use initiate some enquiry from the credit card

company. Many users of credit cards have no doubt received telephone calls, when their use of the card has been exceptional, or otherwise unusual in the eyes of the organization providing the verification services.

Thus, there have been many developments in an effort to overcome this
5 fundamental problem of fraud, in the general area of fraud for ordinary use of credit cards and for the particular problems associated with such remote use.

One of the developments has been the provision of smart cards which are credit card devices containing embedded electronic circuitry that can either store information or perform computations. Generally speaking they contribute to credit
10 card security systems by using some encryption system. A typical example of such a smart card is disclosed in U.S. Patent Specification No. 5,317,636.

Another method used is the Secure Electronic Transaction (SET) protocol which represents the collaboration between many leading computer companies and the credit card industry which is particularly related to electronic transmission of credit
15 card details and in particular via the Internet. It provides a detailed protocol for encryption of credit card details and verification of participants in an electronic transaction.

There are then specific electronic transaction systems such as "Cyber Cash," "Check Free" and "First Virtual." Unfortunately, there are serious problems with
20 what has been proposed to date. Firstly, any form of reliance on encryption is a challenge to those who will then try to break it. The manner in which access has been gained to extremely sensitive information in Government premises, would make even the most foolhardy wary of any reliance on an encryption system. A further problem is that some of the most secure forms of encryption system are not widely
25 available due to government and other security requirements. Limiting the electronic trading systems and security systems for use to the Internet is of relatively little use. While it is perceived to be an area of high risk, in practice to date it is not.

One of the problems with all these systems is that there are many competing technologies and therefore there is a multiplicity of incompatible formats which will be a deterrent to both traders and consumers. Similarly, many of these systems require modifications of the technology used at the point of sale, which will require
5 considerable investment and further limit the uptake of the systems.

Many solutions have been proposed to this problem. However, none of them allow the use of existing credit cards. Ideally, as realized by the present inventors, the solution would be to obtain the functionality of a credit card, while never in fact revealing the master credit card number. Unfortunately, the only way to ensure that
10 master credit card numbers cannot be used fraudulently is to never transmit the master credit card number by any direct route, i.e. phone, mail, Internet or even to print out the master credit card number during the transaction, such as is commonly the case at present. It is thus not feasible.

3. Objects

15 According to exemplary embodiments, the present invention is directed towards improving the existing financial card system by providing a more secure way of using existing financial cards (such as credit, debit and charge cards), and in particular to providing an improved way of using existing credit cards in all types of transactions, including transactions in which the card is physically presented, and
20 transactions in which only the credit card number is presented. The present invention is further directed towards providing a more secure way of using existing credit cards generally which will not require any major modifications to existing credit card systems. It is further directed towards providing an improved credit card system that will be more user friendly and will provide customers with a greater confidence in the
25 security of the system.

Further the invention is directed towards providing an improved credit card system that will not, in one embodiment, necessarily require the use of expensive

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