

AMEX 1018

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
BEFORE THE PATENT TRIAL AND APPEAL BOARD**

In re Covered Business Method
Patent Review of:
U.S. Patent No. 5,940,510

For: SYSTEM FOR COMMUNICATING
DATA SECURELY

DECLARATION OF STEPHEN D. BRISTOW

Mail Stop PATENT BOARD
Patent Trial and Appeal Board
US Patent and Trademark Office
PO Box 1450
Alexandria, Virginia 22313-1450

I, Stephen D. Bristow, hereby declare and state as follows:

1. I have been retained as a technical consultant on behalf of JP Morgan Chase & Co. and JP Morgan Chase N.A., the petitioner in the present proceeding, and I am being compensated at my usual and customary hourly rate. The petition names JP Morgan Chase & Co. and JP Morgan Chase N.A. as real parties-in-interest. I have no financial interest in, or affiliation with, the petitioner, real parties-in-interest, or the patent owner, which I understand to be Maxim Integrated Products, Inc. My compensation is not dependent upon the

outcome of, or my testimony in, the present covered business method patent review or any litigation proceedings.

Background

2. My background, qualifications, and experience relevant to the issues in proceeding are summarized below. My curriculum vitae as related to the issues in this proceeding is submitted herewith as Exhibit 1010.
3. I am currently Chief Technology Officer of Cloudastructure, an Internet-based video security service, and am currently on retainer to advise, consult with, and maintain Parkinson's disease testers for the Andy Grove Foundation of Los Altos, California.
4. I have a Bachelor of Science degree in Electrical Engineering and Computer Science as a Regent's Scholar from the University of California at Berkeley. I also have a Master of Science degree in Electrical Engineering from the University of Santa Clara, in Santa Clara, California. During my studies, I took courses in integrated circuit design, communications theory, computer architecture, programming languages such as machine language, assembly language, compiled and interpreted language, as well as programming language theory. I have also attended numerous ongoing continuing education and technical training classes since graduation, which include

training in the programming, capabilities, technological limitations, and uses of smart cards by Micro Card Technologies, Inc., a subsidiary of Bull.

5. Beginning in 1973, I had the position of Vice President of Engineering for Atari. At that time, Atari's arcade video games operated on a cash basis, and the company was interested in finding out ways to, and developing the technology to, make it easier for customers to play their video games. Traditional coin-operated games require a large amount of coins, which are bulky and inconvenient for consumers, and need to be periodically emptied and deposited, which can be a burden for arcade operators. Paper currency also has drawbacks, as bill acceptors and change machines at the time had complicated mechanics and electronics, and were expensive. Credit card technologies were also not appropriate, since relatively expensive phone lines would be required for each credit card reader. There was therefore a recognized benefit from having an inexpensive stored-value medium where value could be deposited by the consumer and debited by an arcade machine without communicating with a central authority.
6. Through my work at Atari, I began to follow developments in technologies related to cash cards, including magnetic strip paper cards such as those used for mass transit. In the mid-1980s, I became aware of the development of integrated-circuit based "smart cards" which provided persistent storage

coupled with a processing capability that could implement sophisticated security protocols.

7. Around 1986, I began working with my former Atari colleague Christopher Wright to develop a smart card-based solution for postage-printing stations. Mr. Wright and I started Wright Technologies to research and implement this technology. Larger companies at the time used postage-printing stations to generate U.S. mail postage stamps in-house. This was done using heavy sealed metal boxes that included mechanical levers to set postage amounts, which would use mechanicals to set a stamp imprint. Also included was a mechanical balance calculator, which would decrement as postage stamps were generated. In order to refill the stored value, the box would need to be carried to a postal service branch to be physically opened and configured with additional value. We had the idea of using the secure storage capability of smart cards in conjunction with an intelligent printing device in order to generate secure printed postage value. This work resulted in applications for patents filed by myself and Mr. Wright, which include issued U.S. Patent Nos. 4,900,904 (the “904 patent”) (Exhibit 1019) and 4,864,618 (Exhibit 1020), both filed October 17, 1988.
8. Starting in 1986, Wright Technologies completed working prototypes of a postage terminal that used a smart card to securely store and transmit in an

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