

EXHIBIT 1

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Assigned Redesignation Category

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Priority Claims (Domestic)

外国

Foreign

Present Application No.

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Joint Classification Cont'd Yes.No

Applicant

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Enclosures

在中文書

送達通知 7. 3. 16	Delivery Notice 7.3.16	
優先權證明書 7. 5. 16	Certification of Priority Documents	7. (illegible)
国内書面翻譯文 7. 4. 24	Translations of Domestic Documents	7.4.24
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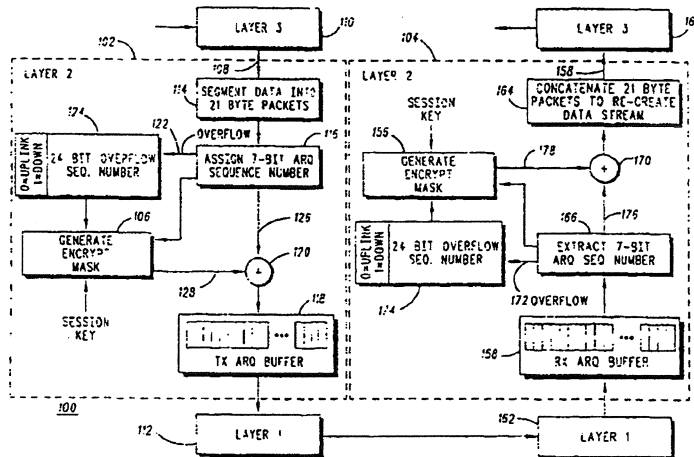
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<p>(51) International Patent Classification⁵ : H04L 9/28</p>	<p>A1</p>	<p>(11) International Publication Number: WO 95/06374 (43) International Publication Date: 2 March 1995 (02.03.95)</p>
<p>(21) International Application Number: PCT/US94/07672 (22) International Filing Date: 11 July 1994 (11.07.94) (30) Priority Data: 08/112,780 26 August 1993 (26.08.93) US (71) Applicant: MOTOROLA, INC. [US/US]; 1303 East Algonquin Road, Schaumburg, IL 60196 (US). (72) Inventors: FINKELSTEIN, Louis, D.; 1698 W. Ottowa Court, Wheeling, IL 60090 (US). KOSMACH, James, J.; 146 South Plum Grove Road, Palatine, IL 60067 (US). SMOLINSKE, Jeffrey, Charles; 4486 Harbor Circle, Hoffman Estates, IL 60195 (US). (74) Agents: PARMELEE, Steven, G. et al.; Motorola, Inc., Intellectual Property Dept./RAS, 1303 East Algonquin Road, Schaumburg, IL 60196 (US).</p>	<p>(81) Designated States: CA, FI, JP, KR, European patent (AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE). Published With international search report.</p>	

(54) Title: METHOD AND APPARATUS FOR PROVIDING CRYPTOGRAPHIC PROTECTION OF A DATA STREAM IN A COMMUNICATION SYSTEM



(57) Abstract

A method and apparatus for providing cryptographic protection of a data stream are described in accordance with the Open Systems Interconnection (OSI) model for a communication system. This cryptographic protection is accomplished on the transmitting side by assigning a packet sequence number to a packet derived from a data stream received from a network layer (110). Subsequently, a transmit overflow sequence number (124) is updated as a function of the packet sequence number (116). Then, prior to communicating the packet and the packet sequence number on a physical layer, the packet is encrypted as a function of the packet sequence number (116) and the transmit overflow sequence number (124). On the receiving side, the packet sequence number is extracted (166) from the physical layer (160). In addition, a receive overflow sequence number (174) is updated as a function of the packet sequence number (172). Finally, the encrypted packet is decrypted as a function of the packet sequence number (176) and the receive overflow sequence number (178). In addition, a transmitting and a receiving communication unit for use in a communication system which includes cryptographic protection of a data stream is described.

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Disclosure Statement in Accordance with the Patent Law Section 184 (5)(i)

April 24, 1995 (H.7)

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1. International Application Number

PCT/US94/07672

2. Title of the Invention

Method and Apparatus for Providing Cryptographic Protection of a Data Stream in a
Communication System

3. International Application Date

July 11, 1994

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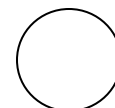
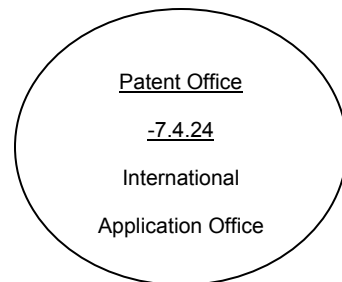
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Formality Examination

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7. List of Attached Documents

- | | |
|---|-----------------|
| (1) Copy of Document in Accordance with Patent Law Section 184 (5)(i) | 1 copy |
| (2) Translation of Specification | 1 copy |
| (3) Translation of Claims | 1 copy |
| (4) Translation of Explanation in Figures | 1 copy |
| (5) Translation of Abstract | 1 copy |
| (6) Power of Attorney and Translation | 1 copy for each |

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