

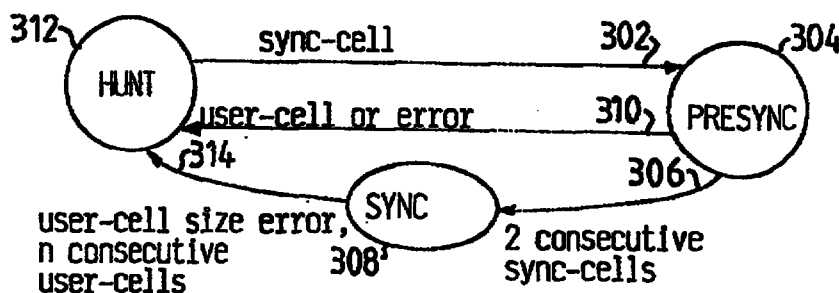
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(21) International Application Number: PCT/SE96/00773 (22) International Filing Date: 13 June 1996 (13.06.96) (30) Priority Data: 9502142-4 13 June 1995 (13.06.95) SE (71) Applicant (for all designated States except US): TELEFONAKTIEBOLAGET LM ERICSSON [SE/SE]; S-126 25 Stockholm (SE). (72) Inventors; and (75) Inventors/Applicants (for US only): PETERSEN, Lars, Göran [SE/SE]; Hökbursv. 5, S-147 42 Tumba (SE). KUNDEL, Mikael [SE/SE]; Slätbäcksvägen 38, S-120 51 Årsta (SE). (74) Agents: ROSENQUIST, P., O. et al.; Bergensträhle & Lindvall AB, P.O. Box 17704, S-118 93 Stockholm (SE).		(81) Designated States: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, ARIPO patent (KE, LS, MW, SD, SZ, UG), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG). Published With international search report. Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.													
		<table border="1"> <tr> <td>REPLACED SHEETS</td> <td>SG</td> </tr> <tr> <td>Description : paged to paged</td> <td></td> </tr> <tr> <td>✓ Claim(s) : paged 26... to paged 32...</td> <td></td> </tr> <tr> <td>Drawing(s) : paged to paged</td> <td></td> </tr> <tr> <td>Abstract : paged to paged</td> <td></td> </tr> <tr> <td colspan="2">DATE OF RECEIPT</td> </tr> </table>		REPLACED SHEETS	SG	Description : paged to paged		✓ Claim(s) : paged 26... to paged 32...		Drawing(s) : paged to paged		Abstract : paged to paged		DATE OF RECEIPT	
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(54) Title: SYNCHRONIZING THE TRANSMISSION OF DATA VIA A TWO-WAY LINK



(57) Abstract

Transmission in a cell based switch of user cells which can include different numbers of data bits is synchronized. The transmission is performed via a two-way link between functional entities which each includes a link control function containing functions for starting and controlling transmission of data on the link by means of sync cells which are exchanged between the link control functions. The exchange of sync cells is controlled by a sync state machine having three states (304, 308, 312). In a HUNT state (312) the link control function investigates a sync cell coming in from the link for establishing whether it agrees with a predetermined pattern for sync cells. In a PRESYNC state (304), that starts after a sync cell containing the predetermined pattern has been found in the HUNT state, the link control function investigates a predetermined number thereafter incoming consecutive sync cells for establishing whether they contain the predetermined pattern. If this is not the case the control process returns to the HUNT state. In a SYNC state (308), that starts after the predetermined number of sync cells containing the predetermined pattern has been found in the PRESYNC state, transmission of data on the link is admitted while supervising data with respect to faults. If faults are found the control process starts again in the HUNT state.

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