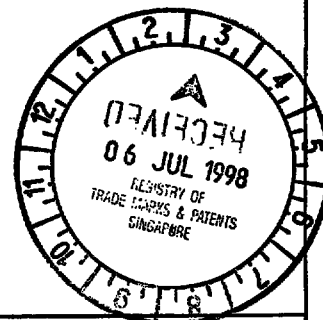


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(54) Title: HIGH-SPEED DATA TRANSMISSION IN MOBILE COMMUNICATION NETWORKS

	FRAME L	FRAME L+1	FRAME L+2	
ch1	DATA	DATA	DATA	...
⋮				
ch(n-1)	DATA	DATA	DATA	...
chn	DATA	FILL	DATA	FILL
			DATA	FILL
				...

(57) Abstract

The invention relates to a digital mobile system and a method for high-speed data transmission in a digital mobile system. The mobile network allocates n parallel rate-adapted traffic channels to a high-speed user data signal which requires a data transfer rate R_{user} within a range $(n-1) \cdot R_{ch} < R_{user} < n \cdot R_{ch}$, wherein R_{ch} is the maximum transmission rate of a single traffic channel. The user data signal is divided in the transmitter into transmission frames (L, L+1, L+2) for transmission via the parallel traffic channels (ch1-chn) in such a way that all the information bits in the transmission frames of $n-1$ traffic channels carry user data bits (DATA), and the user data transfer rate of each of the $n-1$ traffic channels is R_{ch} . In the frames of the n th traffic channel (chn) the number of the information bits carrying user data bits (DATA) is selected to correspond to the user data rate $R_{user} - (n-1) \cdot R_{ch}$ exceeding the capacity of the other $n-1$ traffic channels. The remaining information bits in the frames of the n th traffic channel carry stuff bits (FILL).