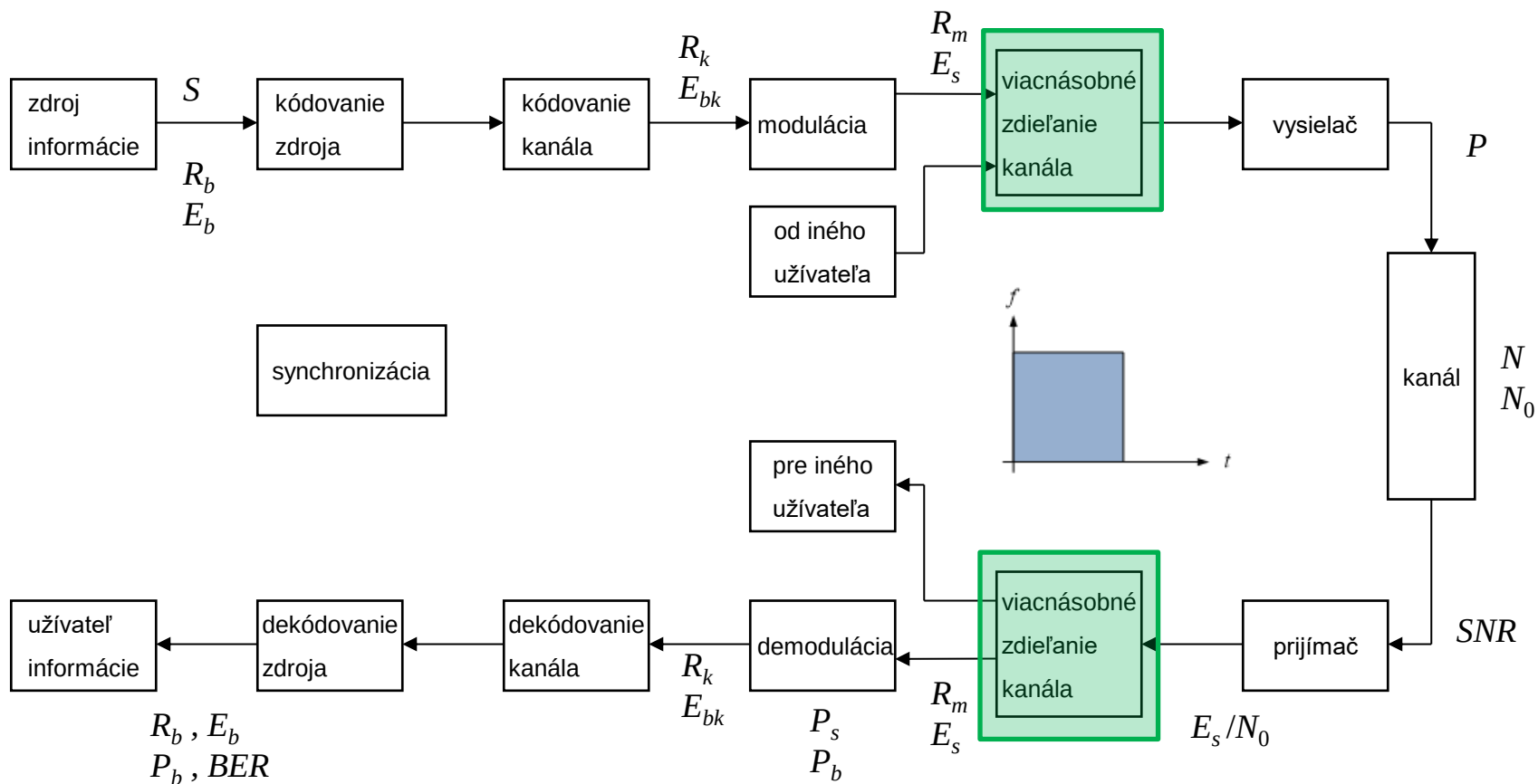
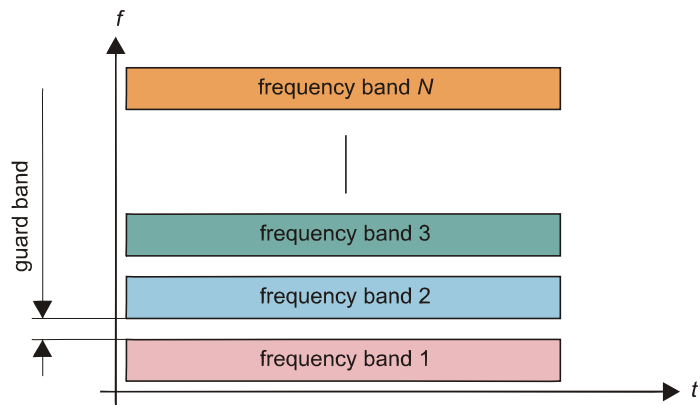
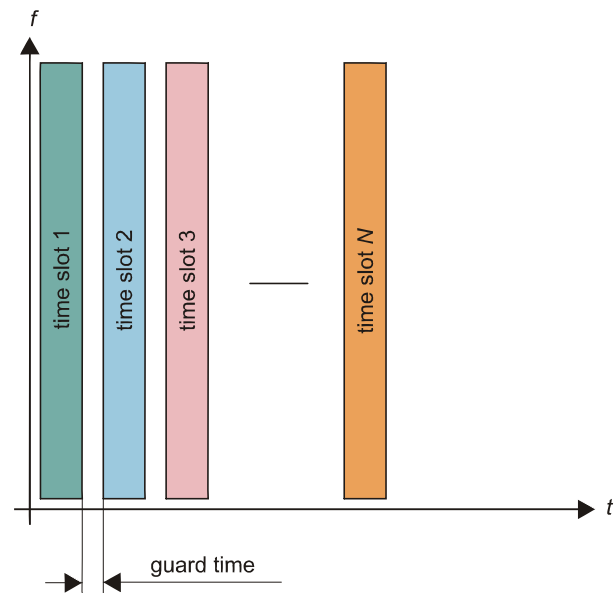


Digitálny prenosový systém:

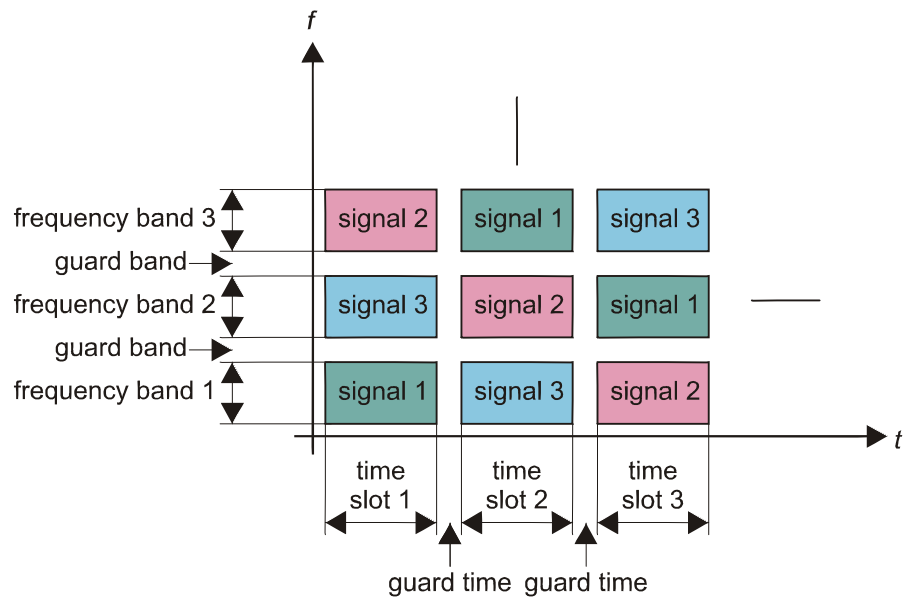




FDMA

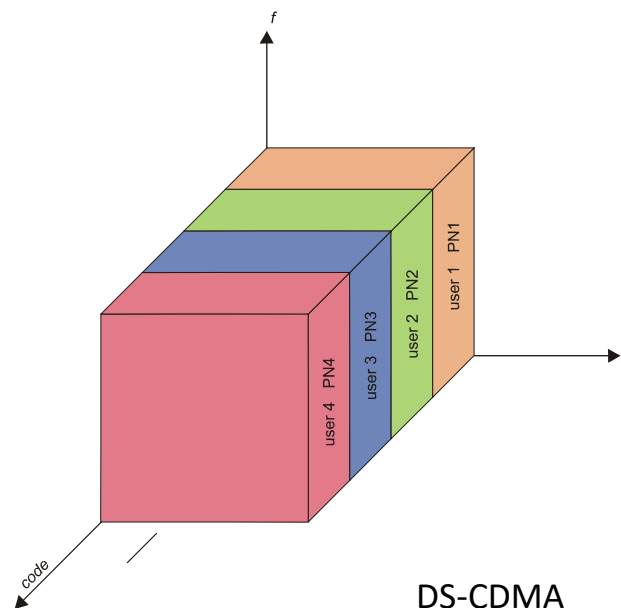


TDMA

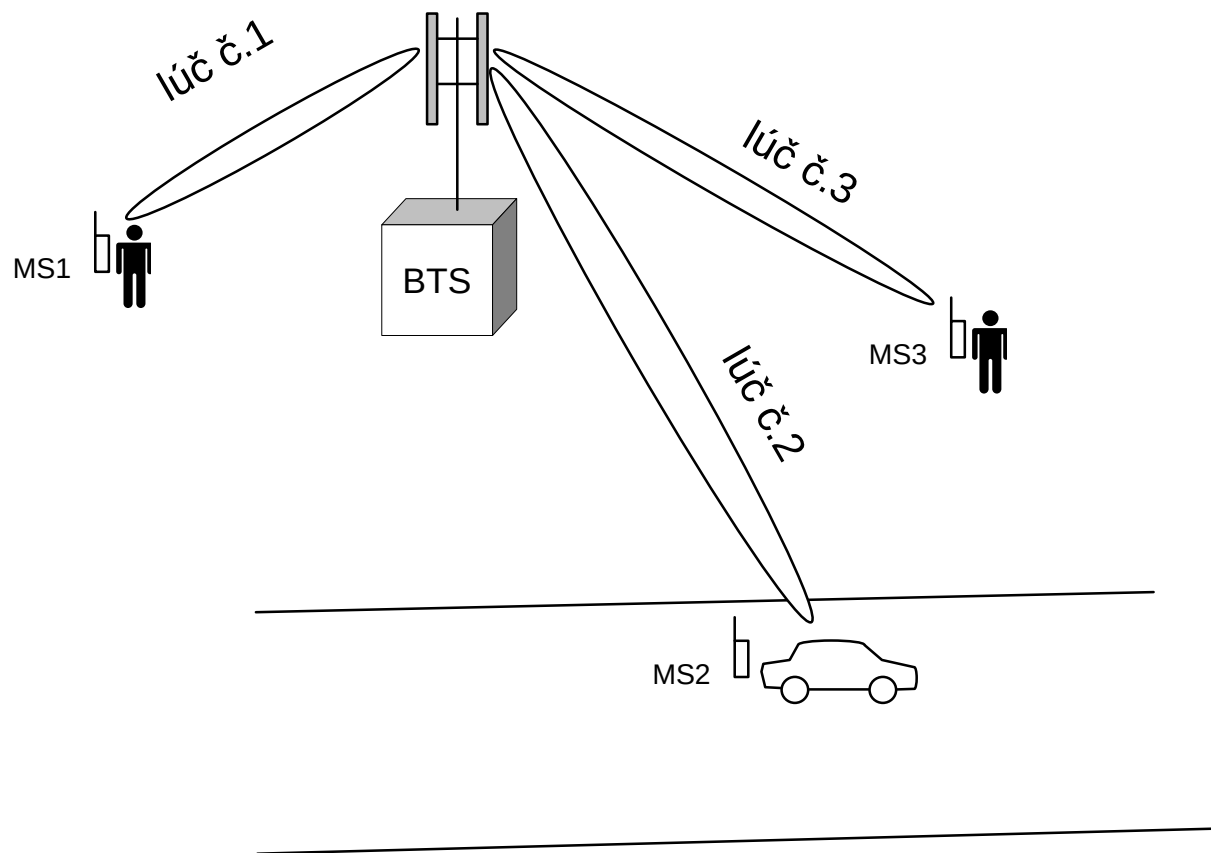


FH-CDMA

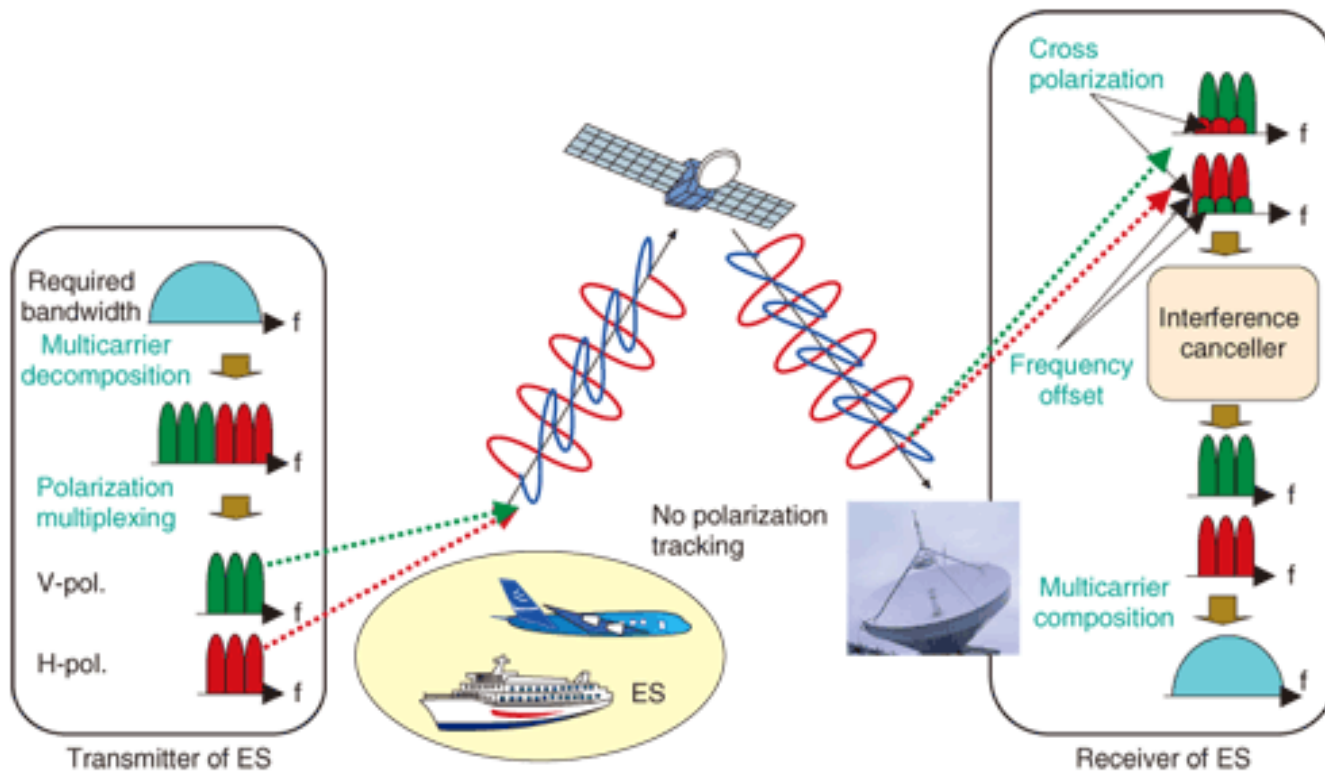
Základné techniky MA



DS-CDMA



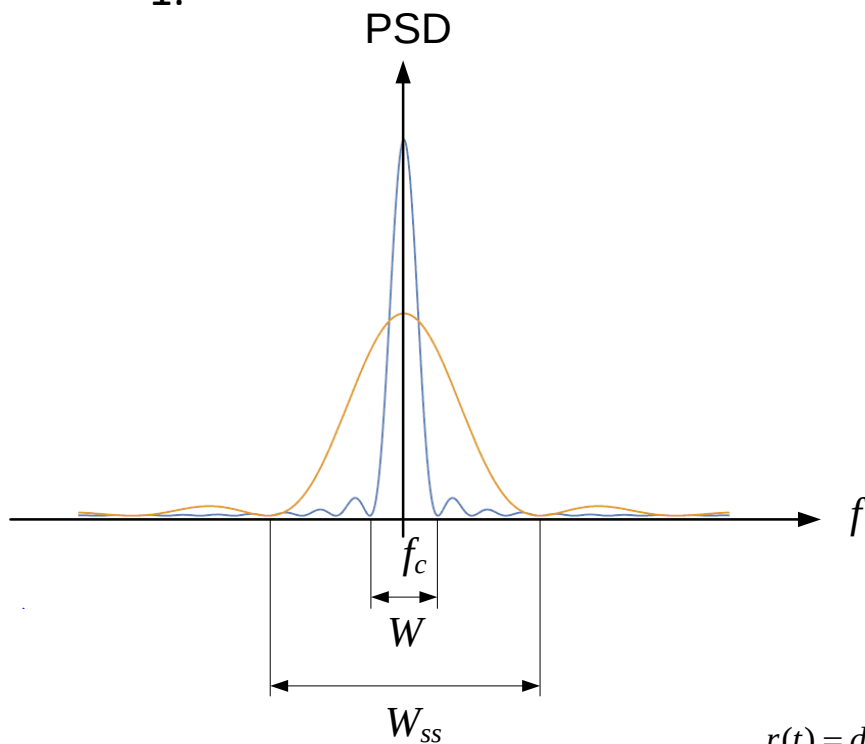
Princíp SDMA



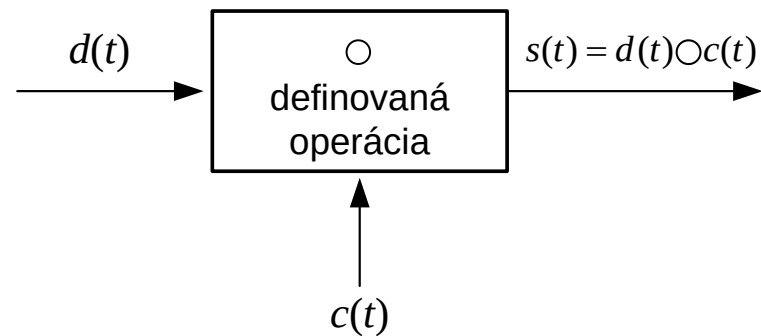
Princíp PDMA

zdroj:<http://www.ntt-review.jp>

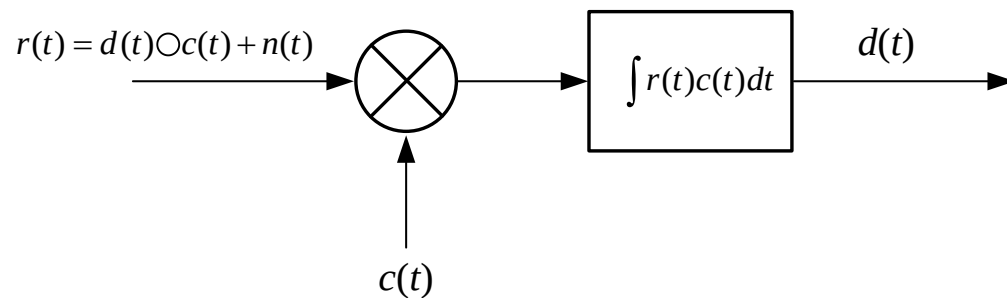
1.



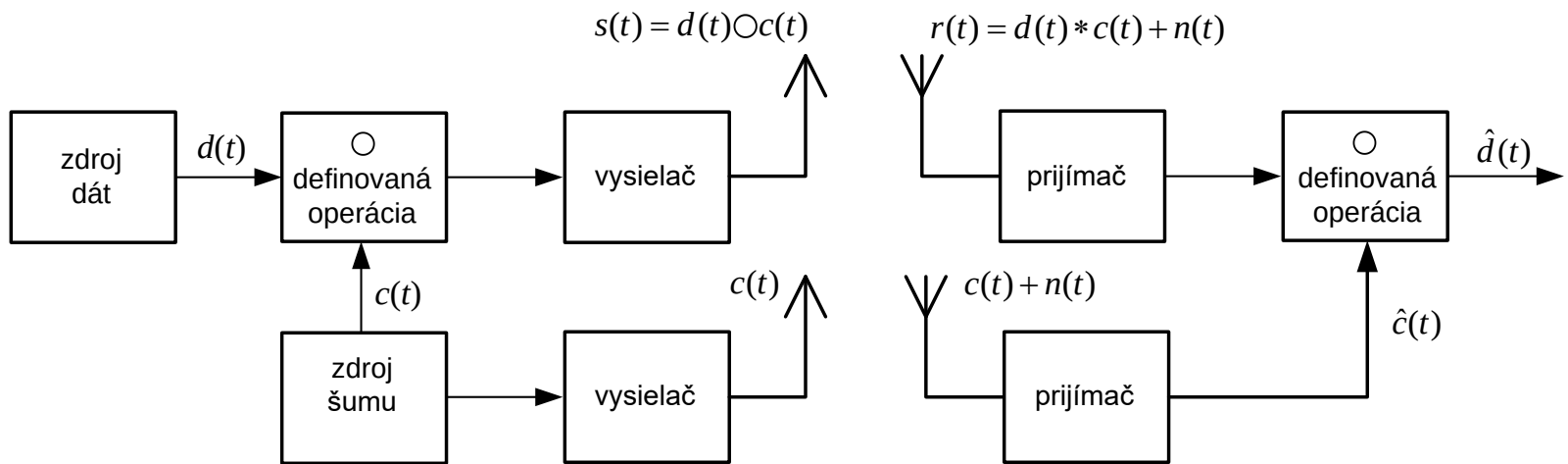
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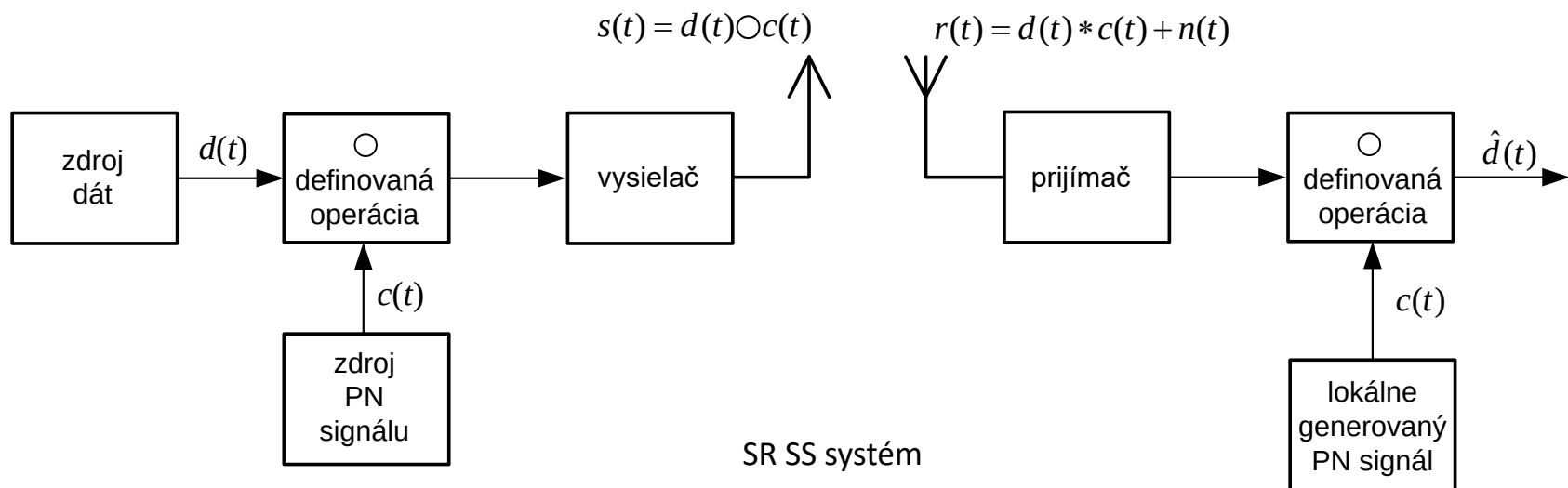
3.



Základné charakteristiky systémov s rozloženým spektrom



TR SS systém



SR SS systém

História komunikačných systémov s rozloženým spektrom a ich dnešné využitie

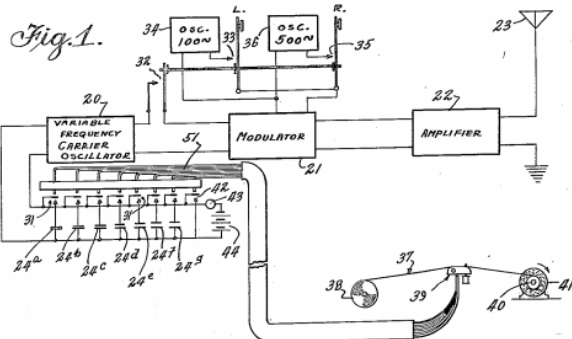
Aug. 11, 1942.

H. K. MARKEY ET AL
SECRET COMMUNICATION SYSTEM

2,292,387

Filed June 10, 1941

2 Sheets-Sheet 1



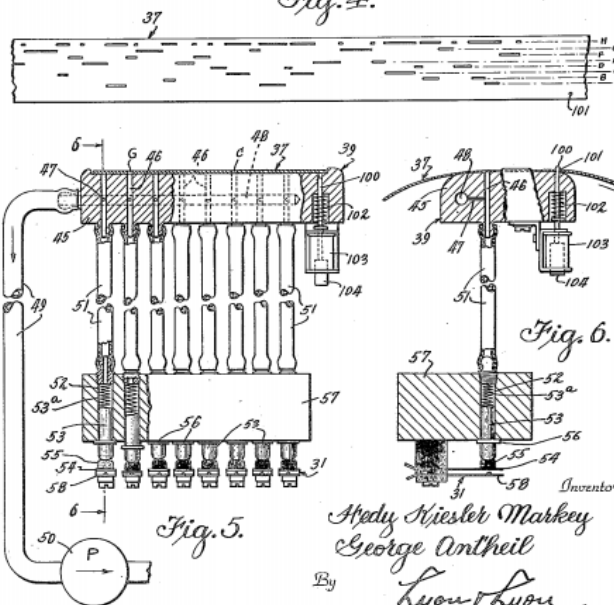
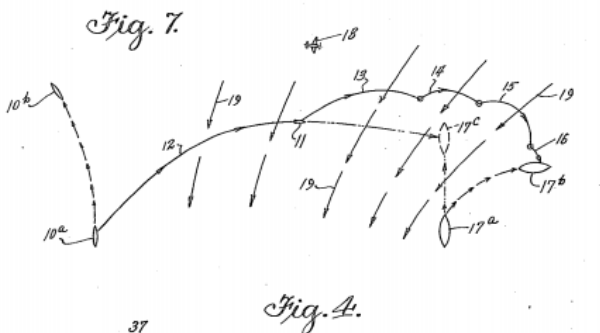
Aug. 11, 1942.

H. K. MARKEY ET AL
SECRET COMMUNICATION SYSTEM

2,292,387

Filed June 10, 1941

2 Sheets-Sheet 2



Hedy Lamarr (Hedwig Eva Maria Kiesler)



George Johann Carl Antheil

prvý FH SS systém pre navádzanie torpéd

dnes: Bluetooth

História komunikačných systémov s rozloženým spektrom a ich dnešné využitie

Sept. 3, 1946.

E. M. DELORAINE ET AL

2,406,811

FACSIMILE SYSTEM

Filed Dec. 15, 1942

6 Sheets-Sheet 1

Sept. 3, 1946.

E. M. DELORAINE ET AL

FACSIMILE SYSTEM

Filed Dec. 15, 1942

6 Sheets-Sheet 2

Fig. 1.

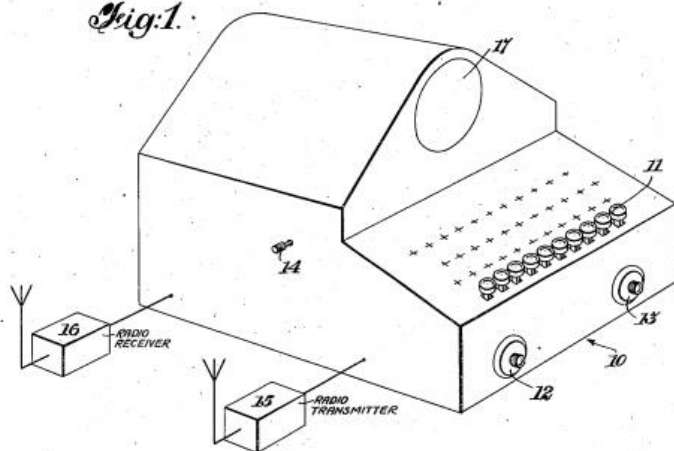
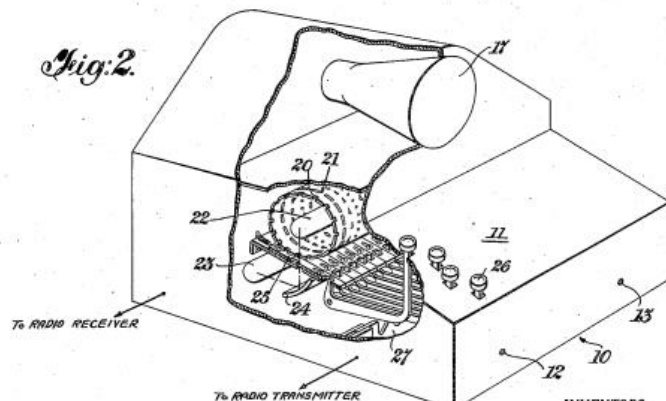


Fig. 2.



INVENTORS
EDMOND M. DELORAINE
HENRY G. BUSIGNIES
LOUIS A. DE ROSA
BY
R. Morris
ATTORNEY

Fig. 3.

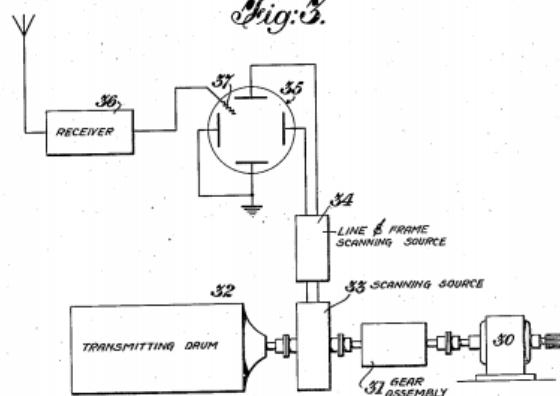
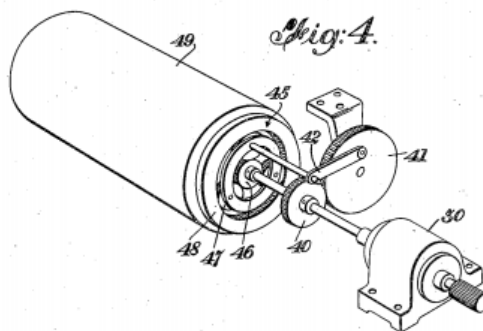


Fig. 4.

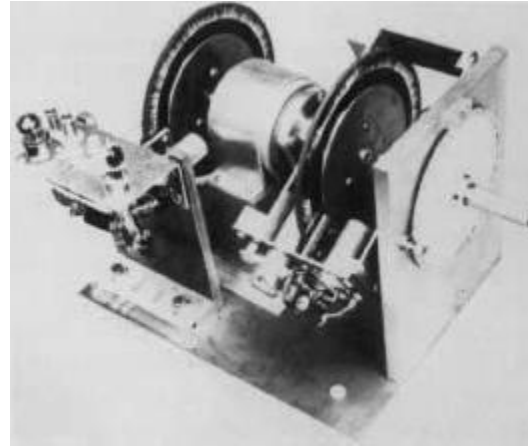
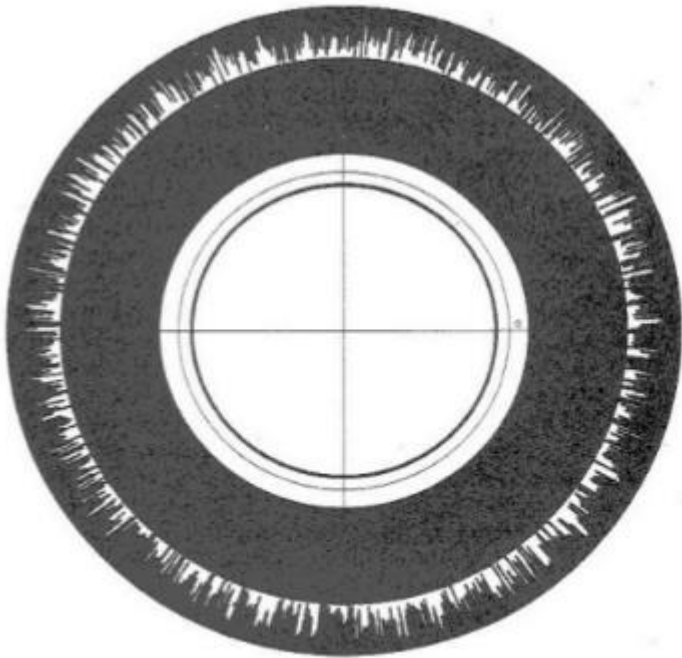


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Edmund M. Deloraine
Henry G. Busignies
Louis A. deRosa

prvý faximilný TH SS systém

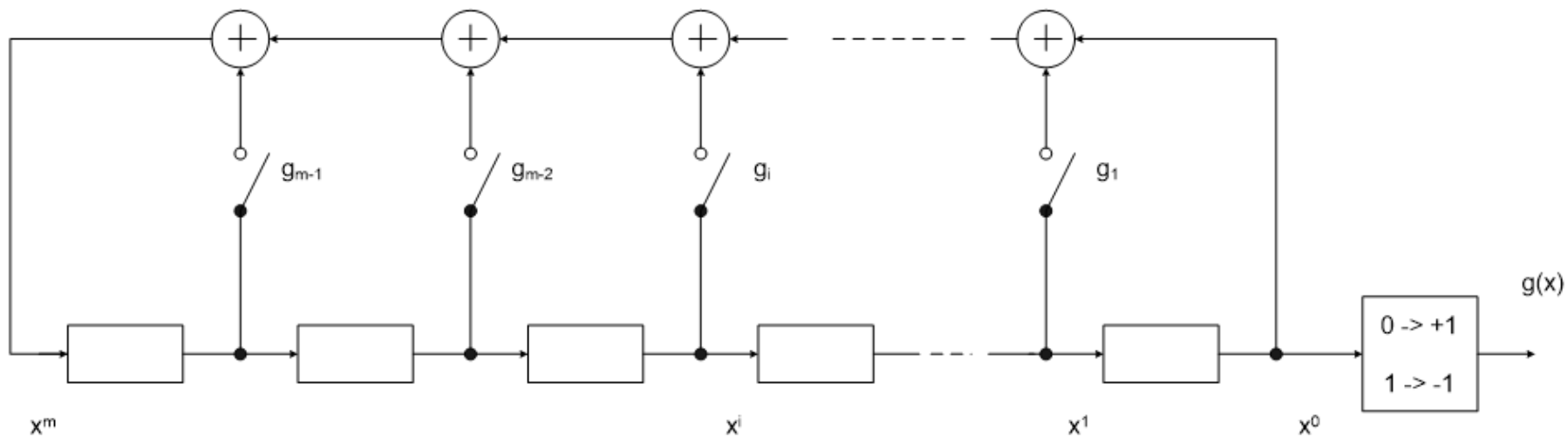
História komunikačných systémov s rozloženým spektrom a ich dnešné využitie



Mortimer Rogoff , 1946

prvý DS SS systém

dnes: Galileo, GPS



Všeobecný tvar PN generátora

dĺžka behu [chips]	počet behov		počet zahrnutých chipov
	jednotiek	núl	
1	16	16	32
2	8	8	32
3	4	4	24
4	2	2	16
5	1	1	10
6	0	1	6
7	1	0	7

Spolu: 127=N

Príklad rozloženia behov pre: $N = 127$ [c] m - postupnosti: ($m = 7$)