Title (en)

SELECTIVE DATA TRANSMISSION PROCESS AND DEVICE FOR COMMUNICATION SYSTEMS USED IN TRAFFIC ENGINEERING

Title (de)

VERFAHREN UND VORRICHTUNG ZUR SELEKTIVEN DATENÜBERTRAGUNG IN VERKEHRSTECHNISCHEN KOMMUNIKATIONSSYSTEMEN

Title (fr)

PROCEDE ET DISPOSITIF DE TRANSMISSION SELECTIVE DE DONNEES DANS DES SYSTEMES DE COMMUNICATIONS UTILISES EN TECHNIQUE DE LA CIRCULATION

Publication

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Application

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Abstract (en)

[origin: WO9739934A1] A process is disclosed for communication systems used in traffic engineering and having an earthbound transponder (TP11, ..., TP32) for each corresponding track section. The transponders transmit first data through a first path of transmission to polling machines arranged on vehicles (FZ1, ..., FZ5). Based on these first data, the concerned polling machine ascertains whether second data transmitted through a second path of transmission to the polling machine are really destined for the vehicles (FZ1, ..., FZ5). The signal in the second path of transmission destined for the vehicles (FZ1, ..., FZ5) of a section of the track is individually modulated or transmitted by a time- or frequency-multiplexing process. Depending on the selected modulation or multiplexing, coefficients are built at the emitter side which are then transmitted through the first path of transmission, extracted at the receiver side and used to demodulate or demultiplex the signal transmitted through the second path of transmission. The physical separation of the transmitted signals makes it possible to ascertain whether the signals received through the second path of transmission are destined for this section of the track or the vehicles (FZ1, ..., FZ5) that circulate thereon.

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