

Title (en)  
DEVICE AND METHOD FOR THE SINGLE SIDEBAND MODULATION OF A RADAR SIGNAL

Title (de)  
VORRICHTUNG UND VERFAHREN ZUR EINSEITENBAND-MODULATION EINES RADARSIGNALS

Title (fr)  
DISPOSITIF ET PROCEDE DE MODULATION A BANDE LATERALE UNIQUE D'UN SIGNAL RADAR

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Application  
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Abstract (en)  
[origin: WO2004023157A1] The invention relates to a radar measuring device which can especially be used for a motor vehicle, and to a method for operating a radar measuring device. In order to occupy a small bandwidth, the inventive radar measuring device comprises a high-frequency oscillator (14) for producing a carrier frequency signal (w24), emission means (11, 16, 18) for producing and emitting a radar pulse signal (R1) - said emission means comprising a first pulse forming device (11) for producing a first pulse signal (w1) and an emission antenna (18) for emitting a first radar pulse signal (R1) consisting of a first pulse signal (w1) and the carrier frequency signal (w24) - reception means (19, 21) for receiving a radar signal (R2), and processing means (12, 21, 22, 23, 25, 26, 29, 30) for processing the received radar signal (R2). Said processing means comprise a second pulse forming device (25) for producing a second pulse signal (w2). The emission means comprise a single sideband mixing device (16) for mixing the first pulse signal (w1) and the carrier frequency signal (T), and the radar pulse signal (R1) emitted from the single sideband mixing device (16) is essentially located in a sideband of the carrier frequency signal (T).

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