

Title (en)  
UWB COMMUNICATION SYSTEM AND CORRESPONDING METHOD

Title (de)  
UWB-KOMMUNIKATIONSSYSTEM UND ENTSPRECHENDES VERFAHREN

Title (fr)  
SYSTEME DE COMMUNICATIONS A BANDE ULTRA-LARGE ET PROCEDE CORRESPONDANT

Publication  
**EP 1654812 A1 20060510 (EN)**

Application  
**EP 04743443 A 20040719**

Priority  
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Abstract (en)  
[origin: GB2404125A] A receiver of ultra wideband (UWB) pulse signals stores a received reference signal (518) and correlates it with further received UWB signals in order to compensate for distortion and multipath reflections (fig. 4b). The data can be encoded and demodulated according to both the position and the phase of the pulse. The correlator (514) comprises a bank of multiply-add arms for correlating a differently delayed version of the reference pulse and a discriminator (612) for determining the phase of a pulse, which may encode data by bi-phase modulation.

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IPC 8 full level  
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CPC (source: EP)  
**H04B 1/71637** (2013.01); **H04B 1/7176** (2013.01); **H04B 1/719** (2013.01)

Citation (search report)  
See references of WO 2005015765A1

Citation (examination)  
XIAOJING HUANG; YUNXIN LI: "Performances of impulse train modulated ultra-wideband systems", ICC 2002. 2002 IEEE INTERNATIONAL CONFERENCE ON COMMUNICATIONS, 28 April 2002 (2002-04-28), NEW YORK, pages 758 - 762, XP010589595

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