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Abstract

Method and apparatus for modulating UWB signals

UWB signals are transmitted modulated to include information. The modulation includes during each pulse repetition period transmitting one of more than two possible states. The transmission during each pulse repetition period includes more than one of modulation based on (i) amplitude, (ii) polarity, (iii) position in time, and (iv) presence/absence of a pulse. Furthermore, the transmission may include during each pulse repetition period transmitting more than one copy of a basic pulse 3.

10 [Fig. 2(a)]



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