

Title (en)

METHOD AND APPARATUS FOR MULTIPLE RESOLUTION CARRIER OFFSET RECOVERY

Title (de)

VERFAHREN UND VORRICHTUNG ZUR TRÄGERVERSATZRÜCKGEWINNUNG MIT MEHRFACHAUFLÖSUNG

Title (fr)

PROCEDE ET DISPOSITIF DE RECUPERATION DU DECALAGE DE LA PORTEUSE PAR RESOLUTION MULTIPLE

Publication

**EP 1428366 A1 20040616 (EN)**

Application

**EP 02762168 A 20020912**

Priority

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- US 31863101 P 20010913

Abstract (en)

[origin: WO03024042A1] A carrier offset recovery method and apparatus are provided that use a dual sequence has a period  $N=2n$  that is less than a second sequence having a period  $M=2m$ . The apparatus includes an error corrector circuit that combines the range from one offset estimation with the precision of the other. To obtain a very large range for the carrier offset one can employ one or more additional stages. For example, one can use a sequence with a period of  $P=2p$  samples where  $P<N$ . Offset estimation would be performed first on the P-sample sequence, then on the N-sample sequence and finally on the M-sample sequence.

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