

Title (en)
INTERFEROMETRIC SIGNAL PROCESSING APPARATUS

Title (de)
INTERFEROMETRISCHE SIGNALVERARBEITUNGSVORRICHTUNG

Title (fr)
APPAREIL DE TRAITEMENT INTERFEROMETRIQUE DU SIGNAL

Publication
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Application
EP 97923665 A 19970530

Priority
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• AU PO024296 A 19960531

Abstract (en)
[origin: WO9746890A1] An interferometric signal processing apparatus (10) producing an output signal from a first input signal (34) and a second input signal (34), said input signals (34) having substantially equal carrier frequencies, comprising: a bridge (12) having a first arm (26) and a second arm (28), each arm having a first end (30) and a second end (32), the first and second input signals (34) being input to the first end (30) of the first and second arms (26, 28), respectively; a device-under-test (36) provided the first arm (26); a carrier suppression means (14) connected to the second ends (32) of the first and second arms (26, 28) to produce a carrier-suppressed signal at its output (A); an amplifier (16) arranged to amplify said carrier-suppressed signal; and a mixing means (22, 24) responsive to the amplified carrier-suppressed signal and a carrier-dominated signal to produce the output signal; wherein the differential group delay between: the first end (30) of the first arm (26) and the output (A) of the carrier suppression means (14); and the first end (30) of the second arm (28) and the output (A) of the carrier suppression means (14) is less than or equal to $1000/f_0$ seconds, where f_0 is the time-averaged mean value of the carrier frequencies of the input signals (34).

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