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(72) Inventors:
 • **Yerazunis, William S.**
Action MA, 01720 (US)
 • **Brinkman, Dirk**
Cambridge
MA 02138 (US)

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(74) Representative: **Pfenning, Meinig & Partner GbR**
Patent- und Rechtsanwälte
Theresienhöhe 13
80339 München (DE)

(71) Applicant: **MITSUBISHI ELECTRIC**
CORPORATION
Chiyoda-ku
Tokyo 100-8310 (JP)

(54) **Memory-based high-speed interferometer**

(57) An interferometer produces a first optical signal and a second optical signal interfering with each other. The optical signals are converted digital signals form addresses. A memory stores data values corresponding to the first and second optical signals, and in which the addresses are used to directly read the data values stored at the addresses. The data values stored in the memory can be dynamically adapting while converting the first and second optical signals and reading the data values.

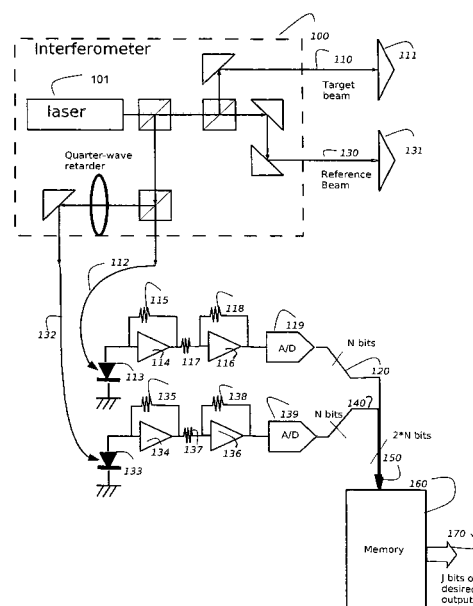


Fig. 2

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