

PATENT ABSTRACTS OF JAPAN

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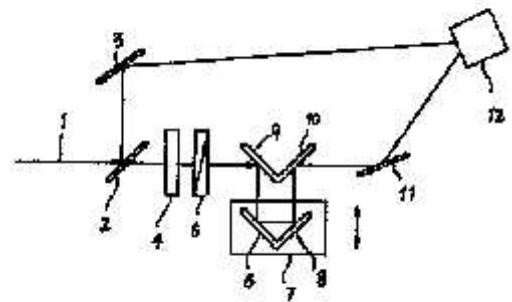
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(54) OPTICAL PULSE SHAPING DEVICE AND METHOD

(57)Abstract:

PURPOSE: To obtain the device and method which optically shape light pulses.

CONSTITUTION: Plural coherent light beams are formed by a laser beam source or beam splitter 2, etc., and one of the plural light beams 1 is variably delayed by a movable refrereflector 7, etc. The intensity ratios of the plural light beams are adjusted by a half wavelength plate 4, polarizer 5, etc., and the plural light beams are coupled by a nonlinear type crystal 12, such as GaAs, at mirrors 3, 11, etc. The light beams are coupled by the nonlinear type crystal 12 and interference patterns are formed there. The transmission and reception of the energy are executed between the light beams by the transient energy migration utilizing self-diffraction, etc., by which the shaping of the pulses is executed.



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