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Title: Total reflection spectrometer measure apparatus has optical surface that condenses terahertz wave between entrance plane and reflective surface, so that reflective surface is located at obtuse angle with respect to entrance plane

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Abstract: NOVELTY - The apparatus has branch unit that branches laser beam emitted from light source in pump light and probe light. A terahertz wave generation element (32) generates terahertz wave (T) by incidence pump light. A terahertz wave detection element (33) detects correlation between terahertz wave and probe light. An optical surface (31d) condenses terahertz wave between entrance plane (31a) and reflective surface, so that reflective surface is located at obtuse angle with respect to entrance plane.

USE - Total reflection spectrometer measure apparatus.

ADVANTAGE - The spreading angle the terahertz wave can be enlarged and the loss the terahertz wave can be suppressed, so that the measurement precision can be ensured, and the enlargement the apparatus can be avoided.

DESCRIPTION DRAWING(S) - The drawing shows a side view the integrated prism.

Entrance plane (31a)

Optical surface (31d)

Terahertz wave generation element (32)

Terahertz wave detection element (33)

Terahertz wave (T)

Drawing:

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Derwent Manual Code(s): S03-A02; S03-E04A1; S03-E04A5; S03-E05

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