

Title (en)

DEVICE FOR PROCESSING A LIGHT BEAM VIA A MULTI-PLANE CONVERTER WITH A VIEW TO FORMING IT INTO A PREDETERMINED SHAPE

Title (de)

VORRICHTUNG ZUR BEARBEITUNG EINES LICHTSTRAHLS ÜBER EINEN MEHREBENEN-KONVERTER IM HINBLICK AUF SEINE FORMUNG IN EINE VORBESTIMMTE FORM

Title (fr)

DISPOSITIF DE TRAITEMENT D'UN FAISCEAU LUMINEUX PAR L'INTERMEDIAIRE D'UN CONVERTISSEUR MULTI PLAN POUR LE CONFORMER À UNE FORME PRÉDÉTERMINÉE

Publication

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Application

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Abstract (en)

[origin: WO2021152245A1] The present invention relates to a device (1) for processing an input light beam comprising at least one optical pulse having an original duration, the processing device (1) aiming to form the input light beam into a predetermined shape. The device comprises an optical input (2); a stretching device (9), with a view to temporally elongating the duration of the optical pulse and thus transmitting a temporally stretched emission; a compressing device (10), with a view to at least partially restoring the original duration of the optical pulse; and an optical output (4). The processing device also comprises a shaping device (6), comprising at least one multi-plane converter placed upstream of the compressing device (10), which is configured to process the temporally stretched emission with a view to forming the output beam into the predetermined shape.

IPC 8 full level

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