

Rapid Prototyping Produced Patient Mask for Precise Positioning in Radiotherapy

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Technology description

Manufacturing patient mask for positioning patients in radiotherapy by rapid prototyping

Radiotherapy is a well-established method to treat certain tumor types in particular brain tumors. For fixation of the patient's head a "mask" is used, which is connected to the plate where the patient is located on. The novel technology describes a non-invasive procedure, where the patient mask is produced by rapid prototyping based on CT/MR data.

Solution

Mask for patient fixation in radiotherapy of brain tumors.

Software reprinting automated contour of head from CT/MRI.

Manufacturing of masks by rapid prototyping.

Figure

Schematic scheme of work flow of mask manufacturing.

Application area

Software can be used for automated manufacturing of fixation device of patients head for radiotherapy of brain tumours.

Advantages

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Less manpower required due to automatic software producing the mask.

Mask can be produced in advance to the radiotherapy treatment.

No direct involvement of the patient required

Institution

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