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c/- Level 5, 24 York Street, Sydney, New South Wales 2000 (AU). **TRAN, Dang-Dinh-Ang**; c/- Level 5, 24 York Street, Sydney, New South Wales 2000 (AU).

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(71) Applicant: **ANNALISE-AI PTY LTD** [AU/AU]; Level 5, 24 York Street, Sydney, New South Wales 2000 (AU).

(72) Inventors: **SEAH, Jarrel**; c/- Level 5, 24 York Street, Sydney, New South Wales 2000 (AU). **JOHNSON, Andrew**;

(74) Agent: **FB RICE PTY LTD**; Level 23, 44 Market St, Sydney, New South Wales 2000 (AU).

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(54) Title: SYSTEM AND METHOD FOR AUTOMATIC REGISTRATION OF MEDICAL IMAGES

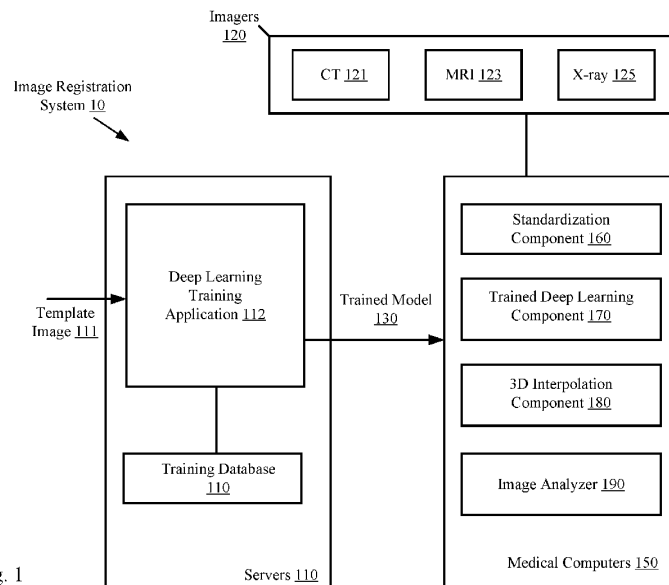


Fig. 1

(57) Abstract: In an implementation, a system for registering at least one medical image is provided, the system including a standardization component that may initially adjust the medical image. The system provides a deep learning model that receives the at least one medical image from the standardization component, the deep learning model generating an 3D transform matrix for the at least one medical image relative to a template image based on trained machine learning logic and an interpolation component that receives the 3D transform matrix from the deep learning model and receives the at least one medical image, the interpolation component registering the at least one medical image in three-dimensional space based on the 3D transform matrix.

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