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(71) Applicant: **ABIOMED EUROPE GMBH** [DE/DE];
Neuenhofer Weg 3, 52074 Aachen (DE).

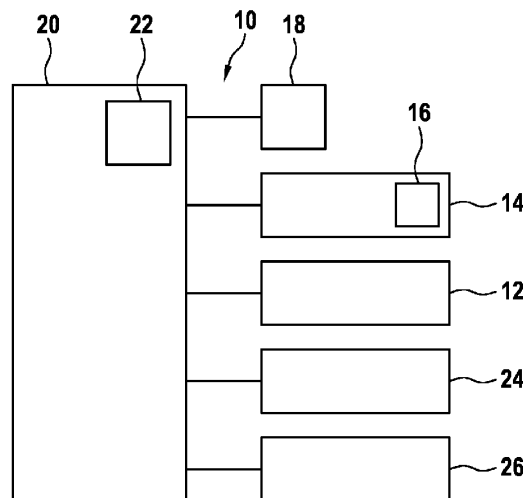
(72) Inventors: **LUNZE, Katrin**; c/o ABIOMED Europe
GmbH, Neuenhofer Weg 3, 52074 Aachen (DE). **ZECH,
Paul**; c/o ABIOMED Europe GmbH, Neuenhofer Weg 3,
52074 Aachen (DE).

(74) Agent: **GROSSE SCHUMACHER KNAUER VON
HIRSCHHAUSEN**; Nymphenburger Str. 14, 80335
München (DE).

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(54) Title: TRACKING SYSTEM AND METHOD OF TRACKING REAL-TIME POSITIONS BY A MOVEABLE SENSOR
WITHIN A PATIENT'S BODY WITH A TRACKING SYSTEM

Fig. 1



(57) Abstract: The present invention relates to a tracking system (10). The tracking system (10) comprises an emitting device (12) configured to establish a measurement volume within at least a part of a patients body, a moveable sensor (16) which is moveable within the measurement volume, a reference sensor (18) establishing a first coordinate system within the measurement volume, a storage device (22) comprising at least one virtual anatomical model VM of at least a part of the patients body B, wherein the at least one virtual anatomical model has a second coordinate system, and a controller (20). The controller (20) is configured to align the first coordinate system and the second coordinate system and to translate real-time positions of the moveable sensor (16) in the first coordinate system into positions in the second coordinate system.

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