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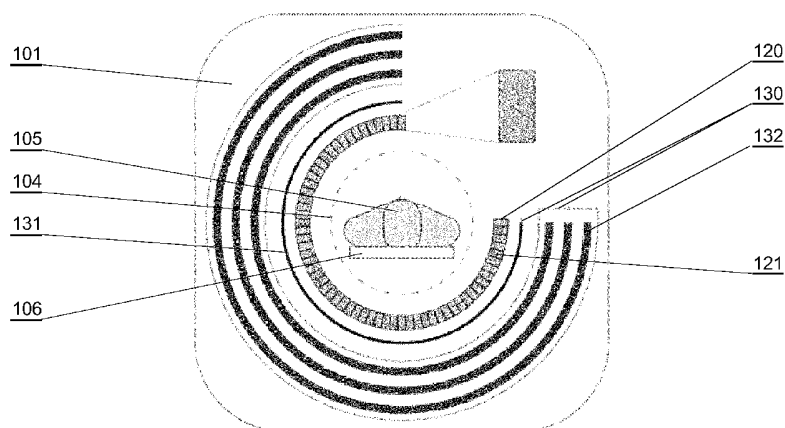


Fig. 2

- (57) Abstract: A hybrid TOF-PET/MRI tomograph comprising a TOF-PET tomograph and an MRI tomograph, wherein the TOF-PET tomograph (120) comprises polymer scintillation strips (121) arranged circumferentially inside the working area of the magnetic field of the receiving-transmitting coil (131) of the MRI tomograph (130) and photoelectric converters (122) for converting light signals from the scintillation strips (121) to electrical signals, wherein the photoelectric converters (122) are arranged outside the working area of magnetic field of the MRI tomograph (130).

