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(54) Title: AUTOMATIC ESTIMATION OF POSITIONS OF BRACHYTHERAPY SEEDS

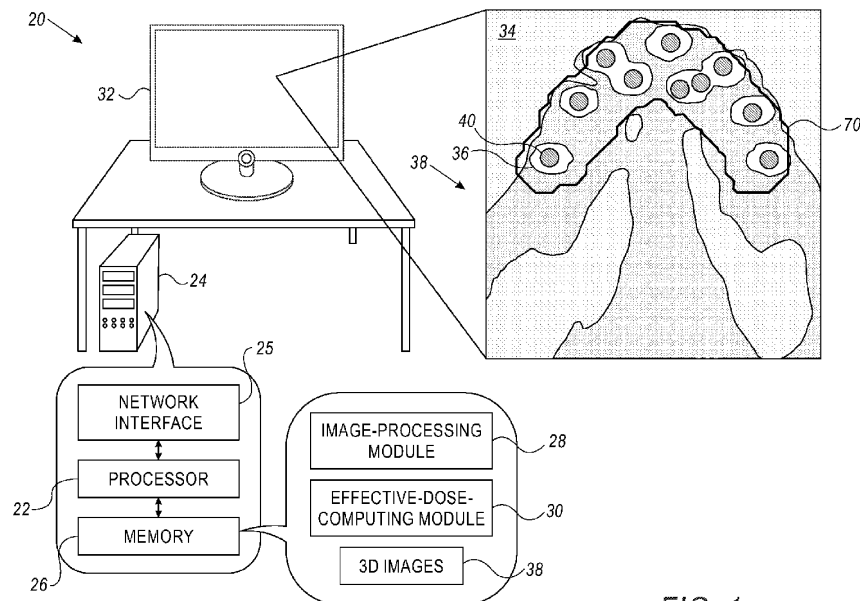


FIG. 1

(57) Abstract: A system includes a memory (26), configured to store program instructions, and a processor (22). The processor is configured to load the program instructions from the memory, and by executing the program instructions, to process a three-dimensional image (38) of a portion of a body of a subject in which multiple brachytherapy seeds grouped into one or more seed groups (36) are implanted, so as to identify clusters (37) of voxels of the image corresponding to the seed groups, respectively, to compute respective estimated positions of the brachytherapy seeds based on respective dimensions of each of the clusters, and to store or communicate the estimated positions for use in computing an effective dose of the brachytherapy seeds. Other embodiments are also described.

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