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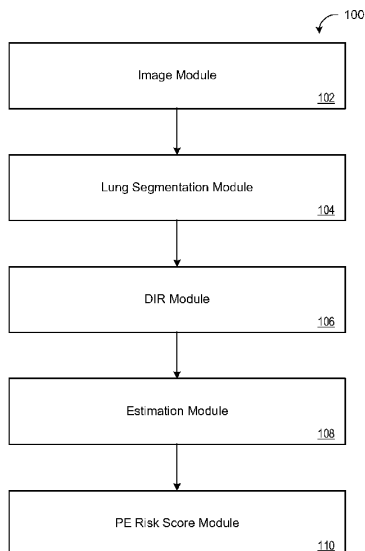


FIG. 1

(57) Abstract: A method for processing images of lungs including defining lung seg-mentation of the lungs, performing deformable image registration on the segmented lungs, performing ventilation estimation operations to determine a ventilation estima-tion, performing perfusion estimation operations to determine a perfusion estimation, comparing the ventilation estimation to the perfusion estimation, and determining a pulmonary embolism risk score based on the comparison of the ventilation estimation to the perfusion estimation.

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