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(54) Title: METHOD AND SYSTEM FOR ASSESSING FIBROSIS IN A TISSUE SAMPLE

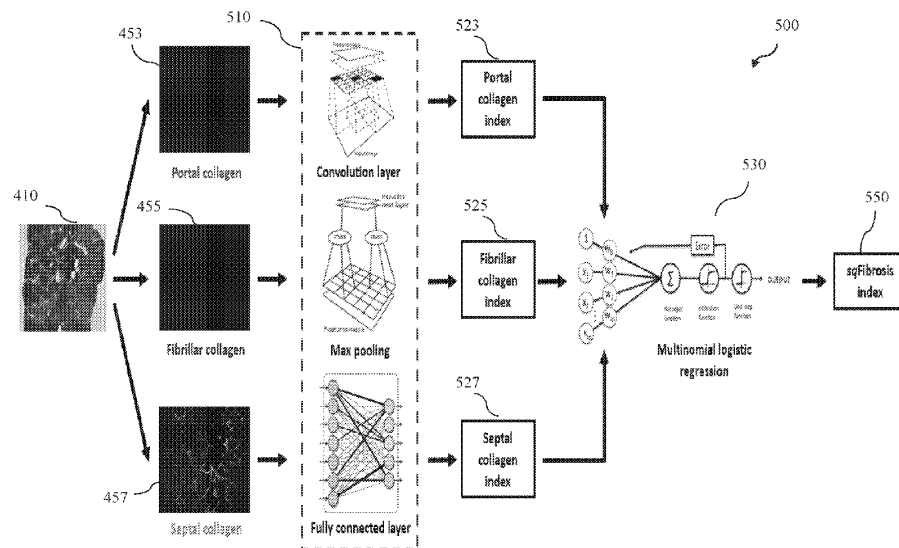


FIG. 5

(57) Abstract: There is provided a method of assessing fibrosis in a tissue sample. The method includes: obtaining a stained image of a stained tissue sample, the stained tissue sample being stained in relation to collagen therein; producing a plurality of different types of collagen images based on the stained image, the plurality of different types of collagen images corresponding to a plurality of different types of collagen, respectively; determining a plurality of different types of collagen parameters based on the plurality of different types of collagen images using a deep neural network; and determining a degree of fibrosis in the stained tissue sample based on the plurality of different types of collagen parameters. The plurality of different types of collagen comprises portal collagen, fibrillar collagen and septal collagen. The different types of collagen images are produced by determining if the collagen satisfies a predetermined size condition or a predetermined distance condition with respect to a boundary of the portal tracts and central veins.

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