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(54) **Title:** METHOD AND SYSTEM FOR ASSESSING NASH CIRRHOSIS

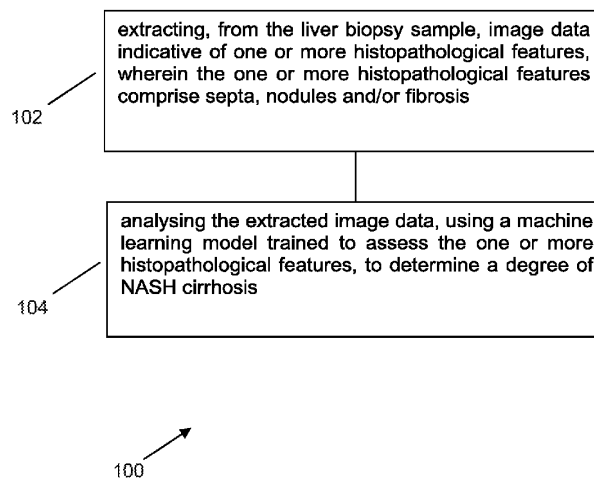


Figure 1

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(57) **Abstract:** A method for assessing nonalcoholic steatohepatitis (NASH) cirrhosis in a liver biopsy sample includes extracting, from the liver biopsy sample, image data indicative of one or more histopathological features, wherein the one or more histopathological features comprise septa and/or nodules and/or fibrosis, and analysing the extracted image data, using a machine learning model trained to assess the one or more histopathological features, to determine a degree of NASH cirrhosis. Training the machine learning model includes providing a plurality of training samples and a plurality of validation samples, each sample comprising a graded liver biopsy sample; quantifying parameters of the one or more histopathological features from image data of each of the training samples; selecting a subset of quantified parameters of the one or more histopathological features; constructing a model for assessing the one or more histopathological features from the subset of quantified parameters; and validating the constructed model using the validation samples.

[Continued on next page]

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