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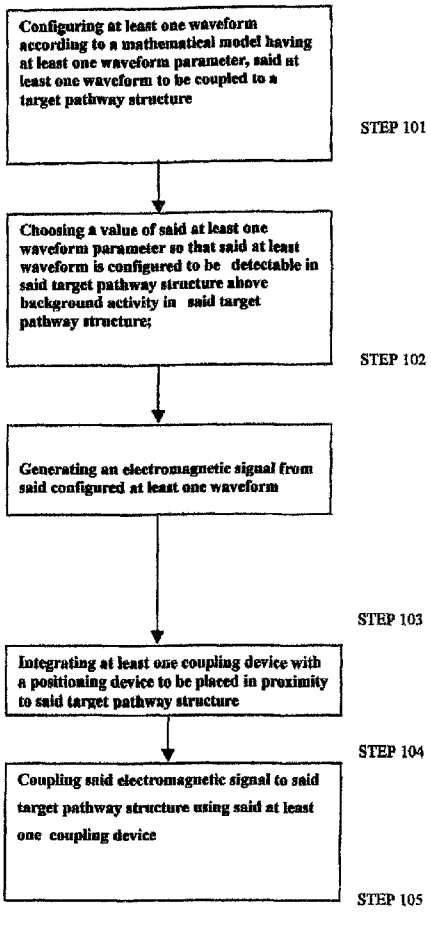
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(54) Title: INTEGRATED COIL APPARATUS AND METHOD FOR USING SAME



(57) Abstract: An apparatus and method for electromagnetic treatment for treatment of molecules, cells, tissues, and organs comprising: configuring at least one waveform according to a mathematical model having at least one waveform parameter, said at least one waveform to be coupled to a target pathway structure (STEP 101); choosing a value of said at least one waveform parameter so that said at least waveform is configured to be detectable in said target pathway structure above background activity in said target pathway structure (STEP 102); generating an electromagnetic signal from said configured at least one waveform (STEP 103); integrating at least one coupling device with a positioning device to be placed in proximity to said target pathway structure (STEP 104); and coupling said electromagnetic signal to said target pathway structure using a coupling device (STEP 105).

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