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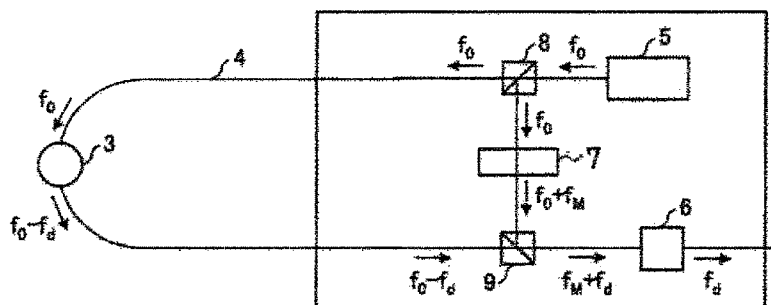
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(54) Title: METHOD FOR INSPECTING CORROSION UNDER INSULATION

Fig. 2



(57) Abstract: A method for inspecting corrosion under insulation simply and precisely at a low cost is provided. The method for inspecting CUI is characterized by obtaining signals from a fiber optical Doppler sensor attached to equipment and counting a waveform for a predetermined time before and after a point where an amplitude is over a threshold value as one acoustic emission (AE) signal, recording the AE signals and the maximum amplitudes thereof, subjecting the AE signals to a filtering process to remove noise signals, determining a frequency distribution of the AE signal hits relative to various maximum amplitude values, determining a regression line of the number of the AE hits relative to the maximum amplitudes from a scattering diagram which is obtained by double logarithmic expression of the frequency distribution, and judging existence or nonexistence of the corrosion based on a gradient of the regression line.