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McKean

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[54] **FILTER CIRCUIT FOR CORONA DETECTION**

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[52] **U.S. Cl.** **324/54,** 333/77

[51] **Int. Cl.** **G01r 31/02,** G01r 31/12

[58] **Field of Search** 324/54; 333/77

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[57] **ABSTRACT**

A filter network for providing essentially optimum resolution of pulse response in the detection of high frequency corona discharge, including a high pass filter for removing the low frequency power line signal and its harmonics, and a low pass lossy transformer which introduces a low frequency bucking voltage in a subsequent stage of detection to balance out any residual low frequency signals still present, thereby providing improved resolution and sensitivity in the detection of corona discharge.

8 Claims, 3 Drawing Figures