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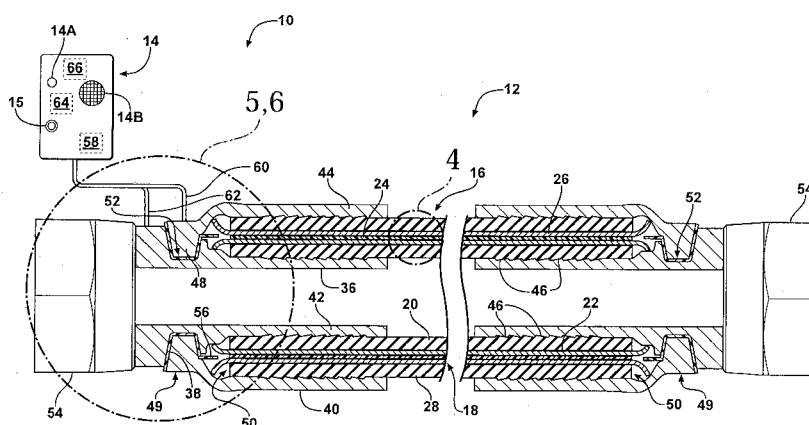


FIG. 1

(57) Abstract: A hose fault detection system (10) includes a hose assembly (16) and a fault detector (14). The hose assembly includes a first conductive layer (22), second conductive layer (26), and an intermediate layer (24) that is disposed between the first and second conductive layers. Each of the first and second conductive layers (22,26) has an electrical characteristic. The fault detector is configured for detecting an electrical change based on the electrical characteristic to signify a potential impending failure of at least one of the first- and second conductive layers of the hose. The fault detector includes a sensing device, a recording device and a digital processor. The sensing device is in electrical communication with the first and second conductive layers to measure the electrical characteristic. The recording device is configured for storing the measured electrical characteristic.