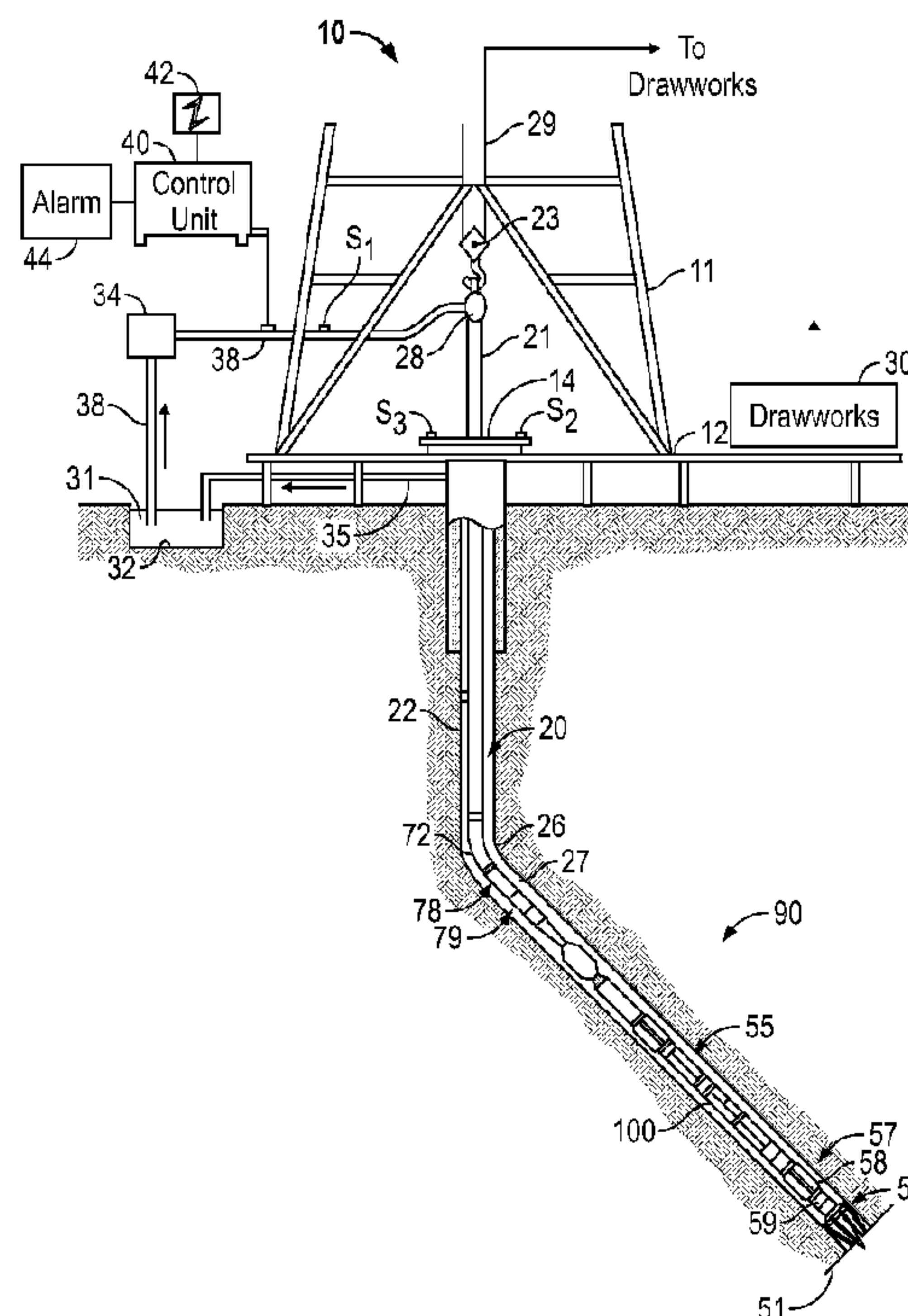




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(54) Titre : PROCEDE BASE SUR L'INVERSION POUR CORRIGER LE SIGNAL RESIDUEL DU TUBAGE DANS LES
TELEMETRIES DE FOND TRANSITOIRES EN COURS DE FORAGE
(54) Title: INVERSION-BASED METHOD TO CORRECT FOR THE PIPE RESIDUAL SIGNAL IN TRANSIENT MWD
MEASUREMENTS



(57) Abrégé/Abstract:

An apparatus and method for reducing a pipe residual signal from transient signals in an induction tool having a metallic pipe with finite, non-zero conductivity in a borehole penetrating an earth formation. The apparatus may include a transient electromagnetic (TEM) signal transmitter, at least one receiver configured to generate an output signal in response to the TEM signal, and at least one processor for estimating an updated model with an improved estimate of the resistivity property. The updated model may be estimated based on a difference between a simulated signal from an initial model and the output signal. The difference may be represented by a set of basis functions. The method includes using the apparatus.