

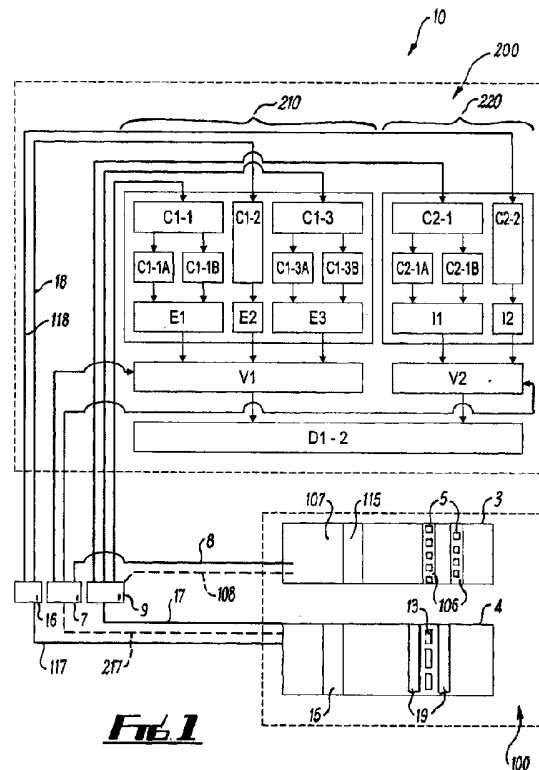
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EP 0301906 A2 US 5117182 A
US 4955235 A
SADEK H. M. "NDE technologies for the examination of heat exchangers and boiler tubes-principles, advantages and limitations" INSIGHT, vol. 48, no. 3, 1 March 2006, pages 181-183.
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(54) Abstract Title: Method and apparatus for non destructive testing

(57) A method and apparatus in which at least two different test phases are performed on a test object, selected from: conventional eddy current testing, partial saturation eddy current testing, and ultrasonic testing. Measurement data sets are obtained from the at least two different test phases, with each measurement data set comprising measurement data corresponding to a plurality of test positions. The data sets are combined in a data processing means and the combined measurement data is processed to evaluate a damage condition of the test object. In a preferred embodiment, all of conventional eddy current testing, partial saturation eddy current testing, and ultrasonic testing are performed. The apparatus may be provided in two or more sub-assemblies, of which one may be an internal test tool and one may be an external tool. Alternatively, the apparatus may be capable of carrying out all three of the test phases.



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