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(54) Title: SYSTEM AND METHOD FOR SONIC WAVE MEASUREMENTS USING AN ACOUSTIC BEAM SOURCE

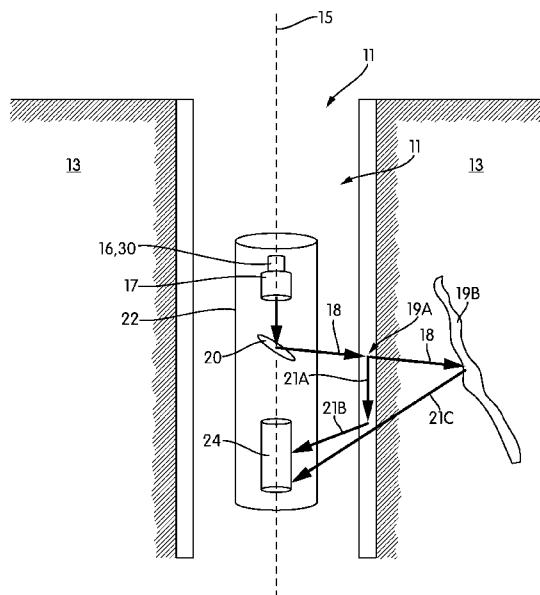


FIG. 14A

(57) Abstract: A method and system for investigating structure near a borehole are described herein. The method includes generating an acoustic beam by an acoustic source; directing at one or more azimuthal angles the acoustic beam towards a selected location in a vicinity of a borehole; receiving at one or more receivers an acoustic signal, the acoustic signal originating from a reflection or a refraction of the acoustic wave by a material at the selected location; and analyzing the received acoustic signal to characterize features of the material around the borehole.



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