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- (54) **Title:** ULTRASONIC TRANSDUCER FOR STRUCTURAL HEALTH MONITORING, METHOD FOR PRODUCING ULTRASONIC TRANSDUCER FOR STRUCTURAL HEALTH MONITORING AND METHOD FOR STRUCTURAL HEALTH MONITORING

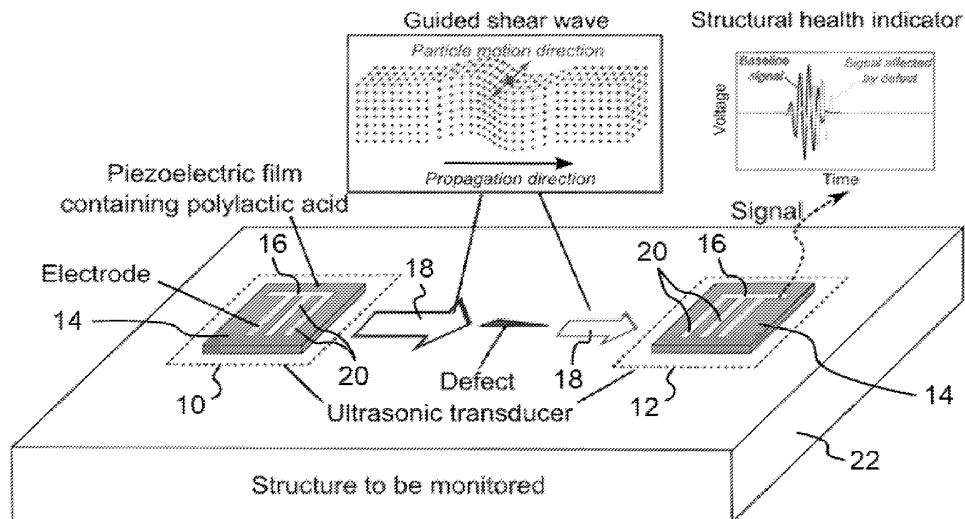


FIG. 1

- (57) **Abstract:** An ultrasonic transducer (10, 12) for structural health monitoring, a method (200) for producing an ultrasonic transducer (10, 12) for structural health monitoring, and a method (300) for structural health monitoring are provided. The ultrasonic transducer (10, 12) includes a piezoelectric film (14), a first electrode (16) on a first surface of the piezoelectric film (14), and a second electrode on a second surface of the piezoelectric film (14). The piezoelectric film (14) includes polylactic acid having aligned molecular chain orientation.

[Continued on next page]

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