

printed circuit board and a second plurality of fulcrum pins secured to a second side of the printed circuit board; and

the plurality of multiple element conductive supports includes a first plurality of multiple element conductive supports secured to the first side of the printed circuit board and a second plurality of multiple element conductive supports secured to the second side of the printed circuit board.

15. The electromechanical tactile cell assembly of claim **1**, further comprising a removable piezoelectric element negative stop assembly.

16. The electromechanical tactile cell assembly of claim **15**, wherein the removable negative stop assembly further comprises a plurality of negative stop elements corresponding to each of a plurality of piezoelectric elements, the plurality of negative stop elements integral with the removable negative stop assembly.

17. The electromechanical tactile cell assembly of claim **15**, wherein the removal piezoelectric element negative stop is fabricated of an insulative material.

18. The electromechanical tactile cell assembly of claim **15**, wherein the removable piezoelectric element negative stop is positioned proximate to the elongated end portion of the plurality of piezoelectric element reeds.

19. The electromechanical tactile assembly of claim **16**, wherein the removable negative stop assembly further comprises a first thin cylindrical portion and first disc portion, a second cylindrical portion and a second disc portion, a third cylindrical portion and a third disc portion and a fourth cylindrical portion, such that the disc portions are positionable between the piezoelectric element reeds.

20. The electromechanical tactile cell assembly of claim **1**, further comprising:

a bus connector adapted to secure the Braille cell assembly to a frame; and

a serial to parallel converter in circuit communication with the bus connector, to receive serial input data from the bus connector for actuation of the plurality of piezoelectric element reeds.

21. The electromechanical tactile cell assembly of claim **1**, further comprising:

a plurality of tactile pins, each of the plurality of tactile pins corresponding to each of the plurality of piezoelectric elements reeds; and

a respective one of the plurality of tactile pins being vertically movable, in response to a bending movement of a corresponding one of the plurality of piezoelectric element reeds.

22. The electromechanical tactile cell assembly of claim **21**, wherein the movement of the plurality of tactile pins provides a tactile Braille display.

23. An electromechanical tactile cell assembly comprising:

a plurality of piezoelectric elements;

a plurality of multiple element conductive supports conductively securing said plurality of piezoelectric elements to a printed circuit board; and

a plurality of pin elements secured to the printed circuit board, each of said plurality of pin elements slightly offset from a corresponding one of said plurality of multiple element conductive supports thereby creating a fulcrum, each of said plurality of pin elements, in combination with the corresponding one of said plurality of multiple element conductive supports adapted to conductively secure said plurality of piezoelectric elements to the printed circuit board.

24. The electromechanical tactile cell assembly of claim **23**, wherein the offset is about 0.22 mm.

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