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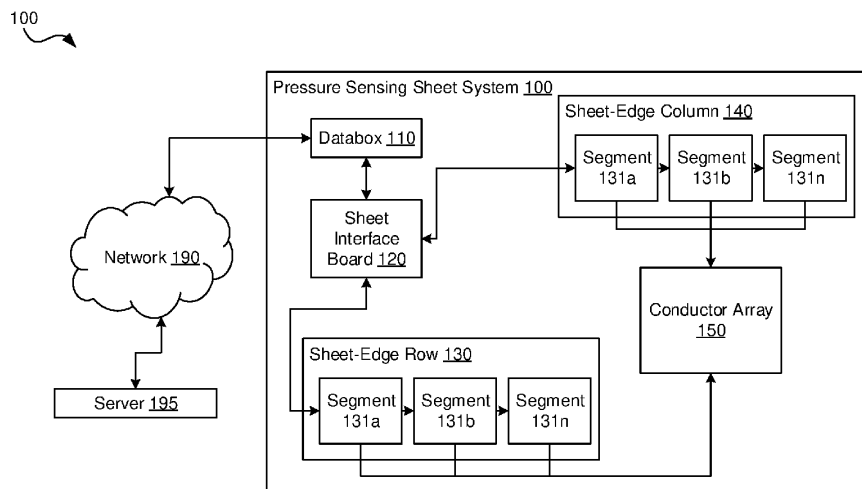


Fig. 1

(57) Abstract: Embodiments generally relate to a pressure sensing sheet system including a pressure sensing mat. The pressure sensing mat includes a piezoresistive material sandwiched between an at least one conductor array row and an at least one conductor array column, wherein each intersection of the conductor array row and the conductor array column defines a taxel; at least one sheet-edge row segment coupled to the at least one conductor array row; at least one sheet-edge column segment coupled to the at least one conductor array column; a sheet interface board connected to the at least one sheet-edge row segment and the at least one sheet-edge column segment, and configured to act as a fan-out; and a databox connected to the sheet interface board of the pressure sensing mat via signal wires and configured to measure each taxel of the pressure sensing mat.

[Continued on next page]

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