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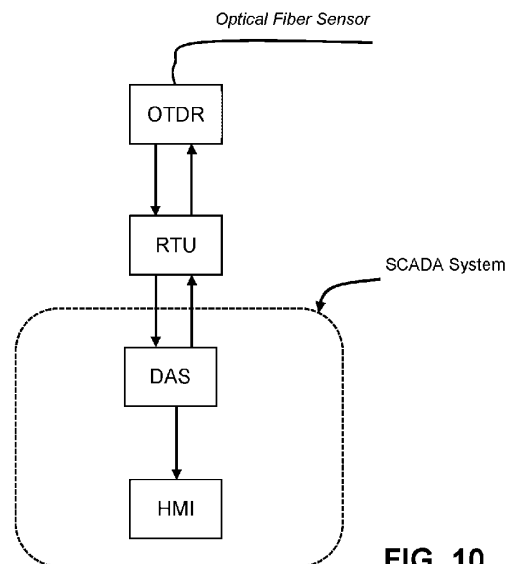


FIG. 10

(57) Abstract: Systems and methods for the operation of an electrical line, such as an electrical line in an electrical transmission or distribution grid. The systems and methods may include the use of sensors such as distributed sensors and non-distributed sensors to collect data about the electrical line and utilize that data for taking action with respect to the electrical line, such as to improve transmission efficiencies and to mitigate outages.

[Continued on next page]

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