

(12) **United States Patent**
Sperling et al.

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(54) **AUTO UPDATING OF WEATHER CELL DISPLAYS**

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(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 438 days.

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(63) Continuation-in-part of application No. 13/246,680, filed on Sep. 27, 2011, now Pat. No. 8,786,486.

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(51) **Int. Cl.**

G01S 13/95 (2006.01)

(57)

ABSTRACT

(52) **U.S. Cl.**

CPC **G01S 13/953** (2013.01)

Methods, systems, and computer-readable media relating to providing weather data generated by a weather radar system of an aircraft are provided. The method includes receiving radar returns from at least one of a horizontal radar scan and a vertical radar scan. The method includes detecting a plurality of weather cells based on at least one of the horizontal radar scan and the vertical radar scan. The method includes providing display data representative of the plurality of weather cells. The method includes automatically providing updated display data representative of the plurality of weather cells based on at least one of an additional horizontal radar scan and an additional vertical radar scan.

(58) **Field of Classification Search**

CPC G01S 13/953; G01S 13/95; G01S 13/951; G01S 7/18

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See application file for complete search history.

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23 Claims, 18 Drawing Sheets

