



Levine's Infringement Contentions per Local Patent Rule 120

Levine '618	Boeing AHM System
<p>4. An aircraft maintenance system for use on an aircraft having a flight data recorder, the maintenance system comprising:</p>	<p>Boeing Aircraft Health Management (AHM) is an aircraft maintenance system that provides airlines with timely information about aircraft conditions to enable them to efficiently manage aircraft maintenance.</p> <div data-bbox="678 926 1624 1472" style="background-color: #800000; color: white; padding: 10px;"> <p>How AHM Works</p> <ul style="list-style-type: none"> ■ AHM collects data in real time from the flying fleet and makes it available to ground operations. ■ Alerts and notifications are delivered to your personnel through the Internet, fax, mobile devices, e-mail and pager services. ■ Teams across your operations access and process information with Boeing-hosted tools on the MyBoeingFleet.com web portal. ■ Your teams receive customized information packages based on your information needs, selected aircraft, and urgency. ■ You make fix-or-fly and other decisions with better information in a fraction of the time versus traditional monitoring, collection of information, and analysis of information. </div> <p>[LEV000002]</p> <p>All Boeing aircraft have a flight data recorder. <i>See</i> 14 C.F.R. §121.343.</p>
<p>a transmitter portable to be placed on an aircraft, said transmitter configured for transmission of digital aircraft performance data across a communication network while said aircraft is in flight; and</p>	<p>AHM uses the onboard ACARS system to transmit digital aircraft performance data while the aircraft is in flight, using one or more different communication networks.</p>

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	<div data-bbox="706 737 846 877" data-label="Image"> </div> <div data-bbox="873 716 1624 894" data-label="Text"> <p>Custom Alerting and Analysis. Customer-specified monitoring and alerting of any data transmitted from the airplane to address developing airplane system issues. AHM automatically monitors, collects, and transmits service levels using ACARS through the installed Aircraft Condition Monitoring System (ACMS).</p> </div> <p data-bbox="678 919 862 953">[LEV000002]</p> <ol style="list-style-type: none"> <li data-bbox="899 999 1243 1033">1. Record cruise data. <p data-bbox="938 1050 1552 1430">Once tight atmospheric and airplane criteria for stable cruise have been achieved, the ACMS records air data, engine, and airplane performance parameters over a period of several minutes. The resulting data can be sent to the ground via the ACARS in a summary report. Some airlines choose to</p> <p data-bbox="678 1436 862 1470">[LEV000008]</p> <div data-bbox="683 1514 1624 1724" data-label="Text"> <p>Custom Alerting and Analysis – Customer-specified monitoring and alerting of any data transmitted from the airplane to address developing airplane system issues. AHM automatically monitors, collects, and transmits service levels using ACARS through the installed Aircraft Condition Monitoring System (ACMS). This includes tire pressure, oxygen pressure, hydraulic fluid, APU, and engine consumption trends are tracked to facilitate maintenance planning, calculate optimal ETOPS, or provide supplemental information to your ETOPS program.</p> </div> <p data-bbox="678 1730 1157 1764">[LEV000013]; See also, LEV000016</p> <p data-bbox="678 1797 1624 1873">The ACARS system uses VHF, HF or satellite communications, depending on the aircraft relative to the ground station and the configuration of the aircraft.</p>

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	<p>the VHF, HF and satellite transceivers is “portable” in the sense that it is a replaceable unit (LRU).</p> <p>Overview The Rockwell Collins VHF-2100 is the latest version of our Very High Frequency (VHF) transceiver for air traffic control. It is the only VHF radio available on the 787 and the 747-8. The unit easily retrofits to all Boeing and Airbus aircraft.</p> <p>Key Features & Benefits</p> <ul style="list-style-type: none"> • Current and future compatibility: The VHF-2100 meets the current requirements for voice and data link requirements and ACARS Services. <p>VHF-2100 Very High Frequency Transceiver</p>  <p>[LEV000018]</p>

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	<p>Overview</p> <p>The HFS-900D is the most widely used High Frequency radio in airline use for long range communications, of HF Transceiver (HFS-900D) and Antenna Coupler (CPL-920D). The system is certified on all Boeing and the unique power requirement on the 787 and A380. The HFS-900D has all Voice and Data Modes available 1800 bps. The system replaces all earlier version of the Rockwell Collins HF radio products, including the H 628T-2D.</p> <p>Warranty and Life Cycle Support Information</p> <p>Key Features & Benefits</p> <ul style="list-style-type: none"> • The HFS-900D gives global communication coverage for both voice and data • An imbedded HF data MODEM, allows the data communication without external MODEM • The CPL-920D antenna coupler is a fully digital coupler, that uses a proprietary tuning algorithm that all • Digital data communication includes the ACARS MU or CMU • The system meets all Boeing and Airbus requirements for operation on all in-production aircraft, including • Meets all ARINC specification, including: 753, 635, 719 and 635 <p>HFS-900D / CPL-920D High Frequency</p>  <p>[LEV000020]</p>
<p>a central station connected to said communication network configured to receive and analyze said digital aircraft performance data to generate maintenance advice for</p>	<p>AHM includes a ground component connected to the one or more communication networks the aircraft uses to transmit ACARS messages. The ground station to receive the digital aircraft performance data transmitted from the aircraft data and generate maintenance advice that is provided to the aircraft operator, for example, sending alerts and notifications “through the Internet, fax, mobile</p>
<p>LEVINE'S INFRINGEMENT CONTENTIONS CIVIL ACTION NO. 14-CV-01991-RSL</p>	<p>Exhibit A</p>

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said aircraft while said aircraft is in flight,	<p data-bbox="678 709 1624 779">and pager services” and making the information available on MyBoeingFI [LEV000002]</p> <p data-bbox="773 821 1624 1035"><i>AHM information also goes to Boeing Operations Control Centers which are staffed 24/7 to support airline operations teams. When the centers receive data from the AHM system and other sources, Boeing responds quickly, engaging suppliers, technical experts and engineering resources as needed to provide its airline customers with information, guidance and solutions.</i></p> <p data-bbox="678 1041 857 1068">[LEV000022]</p>

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