

IPR2018-01449

UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

JUBLIANT DRAXIMAGE INC.,
Petitioner,

v.

BRACCO DIAGNOSTICS INC.,
Patent Owner.

Case IPR2018-01449
Patent 9,299,467

PETITIONER'S DEMONSTRATIVE EXHIBITS

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Jubilant DraxImage Inc. v. Bracco Diagnostics, Inc.

Petitioner's Demonstrative Exhibits

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U.S. Patent No. 9,299,467: Independent Claims

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Claim 1

system comprising:
shielding assembly configured to contain a radioisotope generator that generates radioactive eluate via elution;
computer carried by the shielding assembly, wherein the computer is configured to receive a user input and, responsive to receiving the user input, control the radioisotope generator to generate a sample of eluate via elution during breakthrough testing; and
dose calibrator electronically coupled to the computer and configured to measure an activity of the sample of eluate generated during breakthrough testing,
wherein the computer carried by the shielding assembly is configured to receive the activity data from the dose calibrator and calculate breakthrough test results, and the computer is further configured to prevent a patient infusion procedure if a breakthrough test result exceeds an allowable limit.

Claim 13

13. A method comprising:
generating, with a radioisotope generator contained within a shielding assembly, a radioactive eluate via elution of an eluant;
measuring, with a dose calibrator electronically coupled to a computer carried by the shielding assembly, an activity of the radioactive eluate;
determining, with the computer, an activity of rubidium-82 within the radioactive eluate, and
preventing, with the computer, a patient infusion procedure if a breakthrough test result exceeds an allowable limit.

U.S. Patent No. 9,299,468: Independent Claims

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Claim 1

mobile radioisotope generator system comprising:
a mobile platform carrying an infusion tubing circuit, an activity detector, a dose calibrator, a computer, and a shielding assembly containing a strontium/rubidium radioisotope generator configured to generate a radioactive eluate via elution of an eluant,
an infusion tubing circuit including a tubing line connected between the strontium/rubidium radioisotope generator and the dose calibrator and configured to supply a portion of radioactive eluate to the dose calibrator,
the activity detector being positioned downstream of the strontium/rubidium radioisotope generator and configured to measure an activity of the radioactive eluate flowing through the infusion tubing circuit,
the computer being electronically coupled to the dose calibrator and configured to execute automated quality control testing using the dose calibrator,
the computer is configured to determine an activity of strontium-82 and an activity of strontium-85 in the portion of radioactive eluate through automated quality control testing using the dose calibrator,
the computer is configured to control the mobile radioisotope generator to deliver a dose of radioactive eluate to a patient during a patient infusion procedure, and
the computer is further configured to prevent the patient infusion procedure if a quality control test result exceeds an allowable limit.

Claim 24

24. A method comprising:
delivering eluant to a strontium/rubidium radioisotope generator carried by a movable cart and thereby generating radioactive eluate via elution;
measuring, with an activity detector carried by the movable cart, an activity of the eluate within a tubing line of an infusing tubing circuit;
delivering a portion of eluate via the tubing line to a dose calibrator carried by the movable cart,
performing quality control testing on the eluate delivered to the dose calibrator, quality control testing including determining an activity of strontium-82 and an activity of strontium-85 in the eluate, and
preventing, via a computer carried by the movable cart, a patient injection procedure if a quality control test result exceeds an allowable limit.

U.S. Patent No. 9,299,468: Independent Claims

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Claim 21

21. A mobile radioisotope generator system comprising:
a shielding assembly configured to contain a strontium/rubidium radioisotope generator that generates radioactive eluate via elution of an eluant and an infusion tubing circuit comprising an eluate tubing line configured to convey eluate from the strontium/rubidium radioisotope generator;
means for measuring an activity of the eluate flowing through the eluate tubing line;
means for receiving eluate from the eluate tubing line and measuring breakthrough activity of the eluate; and
means for receiving activity data from the means for measuring the activity of the eluate and controlling the mobile radioisotope generator system based on the received activity data to deliver a dose of eluate to a patient during a patient infusion procedure,
wherein the means for receiving activity data and controlling the mobile radioisotope generator system is further configured to receive breakthrough activity data from the means for receiving eluate and measuring breakthrough activity, determine at least an activity of strontium-82 and an activity of strontium-85 in the eluate from the breakthrough activity data, and prevent the patient infusion procedure if the activity of strontium-82 or the activity of strontium-85 exceeds an allowable limit.

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