



NOTICE OF ALLOWANCE AND FEE(S) DUE

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Table with 2 columns: EXAMINER (ANSARI, TAHMINA N), ART UNIT, PAPER NUMBER

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Table with 5 columns: APPLICATION NO., FILING DATE, FIRST NAMED INVENTOR, ATTORNEY DOCKET NO., CONFIRMATION NO.

14/948,209 11/20/2015 Kenneth L. Weiss 19651.2.1.1 7036
TITLE OF INVENTION: COMPUTER APPARATUS FOR ANALYZING MEDICAL IMAGES FOR DIFFUSION-WEIGHTED ABNORMALITIES OR INFARCT AND GENERATING PRESCRIPTIONS

Table with 7 columns: APPLN. TYPE, ENTITY STATUS, ISSUE FEE DUE, PUBLICATION FEE DUE, PREV. PAID ISSUE FEE, TOTAL FEE(S) DUE, DATE DUE

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the ENTITY STATUS shown above. If the ENTITY STATUS is shown as SMALL or MICRO, verify whether entitlement to that entity status still applies.
If the ENTITY STATUS is the same as shown above, pay the TOTAL FEE(S) DUE shown above.
If the ENTITY STATUS is changed from that shown above, on PART B - FEE(S) TRANSMITTAL, complete section number 5 titled "Change in Entity Status (from status indicated above)".
For purposes of this notice, small entity fees are 1/2 the amount of undiscounted fees, and micro entity fees are 1/2 the amount of small entity fees.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

**File No. 19651.2.1.1**

**Title: COMPUTER APPARATUS FOR ANALYZING MEDICAL IMAGES FOR DIFFUSION-WEIGHTED ABNORMALITIES OR INFARCT AND GENERATING PRESCRIPTIONS**

**Application No.: 14/948,209**

**Filed: November 20, 2015**

**Clean Claims as Allowed (Notice of Allowance dated June 22, 2017)**

1. **(Original)** A computer apparatus to analyze a patient's diffusion-weighted magnetic resonance images for pathology and generate a prescription comprising:
  - (a) a non-transitory memory configured to receive one or more diffusion weighted magnetic resonance images of a patient;
  - (b) a program stored in the non-transitory memory and operatively configured to analyze said images for a region including a pathology; and
  - (c) a computer processor in communication with the non-transitory memory and configured to perform the program by executing computer executable instructions, wherein the program is operatively configured to automatically generate a prescription based at least in part on the analysis.
  
2. **(Original)** The computer apparatus of claim 1, wherein the analysis includes a search for regions of acute infarction.
  
3. **(Original)** The computer apparatus of claim 1, wherein the prescription directs further imaging.
  
4. **(Original)** The computer apparatus of claim 1, wherein the prescription directs therapy.
  
5. **(Original)** The computer apparatus of claim 2, wherein the pathology identified is an acute infarction and the prescription includes a magnetic resonance angiographic sequence.

6. **(Original)** The computer apparatus of claim 2, wherein the pathology identified is an acute infarction and the prescription includes a perfusion sequence.

7. **(Original)** The computer apparatus of claim 1, wherein the computer apparatus receives input from a technologist to prescribe the diffusion-weighted images received in memory.

8. **(Original)** The computer apparatus of claim 1, wherein the computer apparatus auto-prescribes the diffusion-weighted images received in memory.

9. **(Original)** The computer apparatus of claim 1, wherein the diffusion-weighted images include the brain.

10. **(Original)** The computer apparatus of claim 1, wherein the diffusion-weighted images are in the axial plane.

11. **(Original)** The computer apparatus of claim 1, wherein the prescription directs further imaging.

12. **(Original)** A computer apparatus to analyze a patient's images for the presence of infarction and generate a prescription comprising:

(a) a non-transitory memory configured to receive one or more images of a patient

(b) a program stored in the non-transitory memory and operatively configured to analyze said images for a region including an infarction; and

(c) a computer processor in communication with the non-transitory memory and configured to perform the program by executing computer executable instructions, wherein the program is operatively configured to automatically generate a prescription based at least in part on the analysis.

13. **(Original)** The computer apparatus of claim 12, wherein said images include diffusion-weighted magnetic resonance sequencing.

14. **(Original)** The computer apparatus of claim 12, wherein the prescription includes scanning for diffusion-weighted magnetic resonance images.

15. **(Original)** The computer apparatus of claim 12, wherein the infarction is acute and the prescription includes a magnetic resonance angiographic sequence.

16. **(Original)** The computer apparatus of claim 12, wherein the infarction is acute and the prescription includes a perfusion sequence.

17. **(Original)** The computer apparatus of claim 12, wherein the images include the brain.

18. **(Original)** The computer apparatus of claim 12, wherein the prescription directs further imaging.

19. **(Original)** The computer apparatus of claim 12, wherein the prescription directs therapy.

20. **(Original)** The computer apparatus of claim 19, wherein the therapy is emergent neuro-intervention.