



US007213967B2

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

(10) **Patent No.:** **US 7,213,967 B2**
(45) **Date of Patent:** **May 8, 2007**

(54) **METHOD AND SYSTEM FOR CONSERVATIVE EVALUATION, VALIDATION AND MONITORING OF THERMAL PROCESSING**

(58) **Field of Classification Search** 374/141, 374/102, 103, 104, 208
See application file for complete search history.

(56) **References Cited**

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(75) Inventors: **Josip Simunovic**, Raleigh, NC (US);
Kenneth R. Swartzel, Raleigh, NC (US); **Eric Adles**, Raleigh, NC (US)

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(73) Assignee: **North Carolina State University**, Raleigh, NC (US)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

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(21) Appl. No.: **11/301,933**

JP 57079415 A 5/1982

(22) Filed: **Dec. 13, 2005**

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(65) **Prior Publication Data**

Boll, R. et al., "Magnetic Sensors of New Materials", *Siemens Forschungs-Und Entwicklungsberichte*, vol. 10, No. 2, pp. 83-90, 1981.

US 2006/0133449 A1 Jun. 22, 2006

Related U.S. Application Data

(Continued)

(63) Continuation of application No. 10/855,118, filed on May 27, 2004, now Pat. No. 7,004,620, which is a continuation of application No. 09/804,366, filed on Mar. 12, 2001, now Pat. No. 6,776,523.

Primary Examiner—Gail Verbitsky
(74) *Attorney, Agent, or Firm*—Jenkins, Wilson, Taylor & Hunt, P.A.

(60) Provisional application No. 60/188,526, filed on Mar. 10, 2000.

(57) **ABSTRACT**

(51) **Int. Cl.**
A23L 3/005 (2006.01)
A23L 1/00 (2006.01)
C01K 3/04 (2006.01)
C01K 7/02 (2006.01)

A method of generating a temperature measurement for a batch or a continuous stream of material. The method includes providing a particle having a signal that changes at a pre-determined temperature; inserting the particle into the batch or continuous stream; and detecting a signal change from the particle to thereby generate a temperature measurement for the batch or continuous stream. A suitable system for use in carrying out the method is also described.

(52) **U.S. Cl.** **374/102; 374/104; 374/163; 374/176; 374/141; 99/342**

35 Claims, 12 Drawing Sheets

