



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

(10) **Patent No.:** **US 7,794,772 B2**
(45) **Date of Patent:** **Sep. 14, 2010**

(54) **CONCENTRATED COFFEE EXTRACT AND PROCESS FOR PRODUCING THE SAME**
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4,794,010 A 12/1988 Jones et al. 426/387
5,225,223 A 7/1993 Vitzthum et al.
5,236,729 A 8/1993 Schlecht et al. 426/417
5,323,623 A 6/1994 Carns et al.
5,997,929 A * 12/1999 Heeb et al. 426/433

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(Continued)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 531 days.

FOREIGN PATENT DOCUMENTS

CN 1063797 A 8/1992

(21) Appl. No.: **11/661,756**

(Continued)

(22) PCT Filed: **Sep. 2, 2005**

OTHER PUBLICATIONS

(86) PCT No.: **PCT/JP2005/016561**

Sivetz, Michael and Norman W. Desrosier, Coffee Technology, 1979, AVI Publishing Company, Inc. pp. 376, 379-380.*

§ 371 (c)(1),
(2), (4) Date: **Mar. 2, 2007**

(Continued)

(87) PCT Pub. No.: **WO2006/028193**

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PCT Pub. Date: **Mar. 16, 2006**

(65) **Prior Publication Data**

US 2007/0231443 A1 Oct. 4, 2007

(57) **ABSTRACT**

(30) **Foreign Application Priority Data**

Sep. 8, 2004 (JP) 2004-260759

The present invention has an object of providing a concentrated coffee extract which is rich in aroma component released when the roasted coffee beans are ground and has an amount of coffee oil controllable in accordance with the use and purpose, and a process for industrially producing the same. According to the present invention, the above object is achieved by separating an aroma component-containing distillate, a coffee oil-containing liquid, and a coffee extract from a slurry obtained by wet-grinding roasted coffee beans, and after the coffee extract is concentrated, adding back the aroma component-containing distillate and the coffee oil-containing liquid.

(51) **Int. Cl.**
A23F 3/00 (2006.01)

(52) **U.S. Cl.** **426/594; 426/387; 426/386; 426/495; 426/432**

(58) **Field of Classification Search** None
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

4,277,509 A * 7/1981 Wouda 426/387

20 Claims, 2 Drawing Sheets

