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[Continued on next page]

(54) Title: METHODS AND COMPOSITIONS FOR IMPROVING THE NUTRITIONAL CONTENT OF MUSHROOMS AND FUNGI

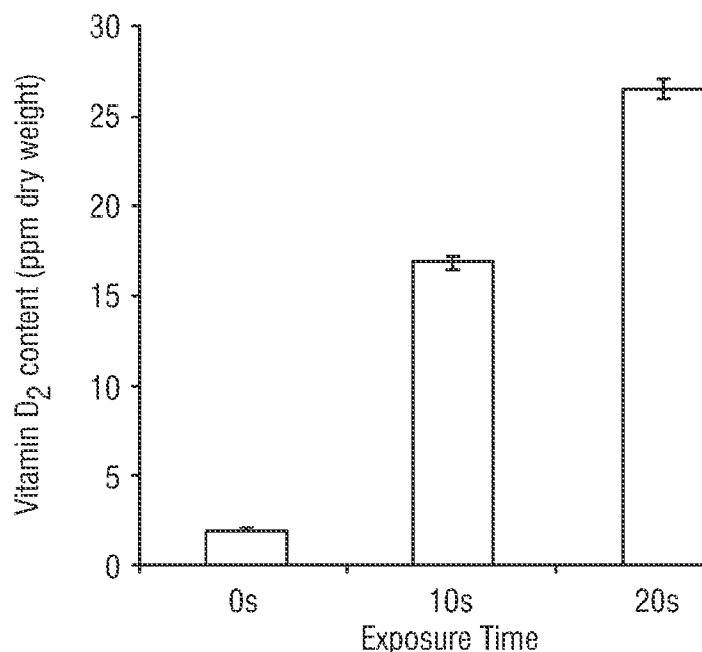


FIG. 3

(57) Abstract: Abstract An improved filamentous fungi is disclosed that has an enhanced nutritional profile by utilizing pulsed ultraviolet irradiation. According to the invention, the vitamin D component of mushrooms and other filamentous fungi may be drastically increased with no deleterious affects on appearance with the use of pulsed UV radiation. Mushrooms so treated had up to 1800% DV in one serving of fresh mushrooms.



MC, MK, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR),
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According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Korean Utility Models and Applications for Utility Models since 1975

Japanese Utility Models and Applications for Utility Models since 1975

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

eKOMPASS, WPI, USPTO, PAJ, NCBI, INSPECT "Lentinus edodes, filamentous fungi, Vitamin D, Pleurotus ostreatus, Agaricus bisporus, UV, mycelium, air dried, et al."

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	Korean J. Soc. Food Cookery Sci., Vol.18(2): 173-178 (2002) - see pages 174-178	1-32
Y	Food Chemistry, Vol.92: 541-546 (2005) - see the whole document	1-32
Y	Food Chemistry, Vol.95: 638-643 (2006) - see the whole document	1-32
Y	LWT, Vol.40: 815-822 (2007) - see the whole document	1-32



Further documents are listed in the continuation of Box C.



See patent family annex.

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