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Please find below and/or attached an Office communication concerning this application or proceeding.

PTO-90C (Rev. 07-01)

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Period for	Office Action Summary	09/750,022	ISAACS, INDU J.	
Period for	Office Action Summary			
Period for		Examiner	Art Unit	
Period for		Chih-Min Kam	1653	
	The MAILING DATE of this communica Reply	ation appears on the cover sheet v	vith the correspondence address	
THE M. - Extensi after SI - If the p - If NO p - Failure - Any rep	RTENED STATUTORY PERIOD FOR AILING DATE OF THIS COMMUNIC/ ions of time may be available under the provisions of a X (6) MONTHS from the mailing date of this commun eriod for reply specified above is less than thirty (30) c eriod for reply is specified above, the maximum statut to reply within the set or extended period for reply will ally received by the Office later than three months after patent term adjustment. See 37 CFR 1.704(b).	ATION. 37 CFR 1.136(a). In no event, however, may a cation. lays, a reply within the statutory minimum of th ory period will apply and will expire SIX (6) MC , by statute, cause the application to become A	a reply be timely filed irty (30) days will be considered timely. NTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).	
	Responsive to communication(s) filed	on 27 November 2002 .		
) This action is non-final.		
	Since this application is in condition for closed in accordance with the practice			
	n of Claims			
4)⊠ C	Claim(s) <u>1-54</u> is/are pending in the ap	plication.		
	a) Of the above claim(s) is/are			
5)🛛 C) Claim(s) <u>36-42</u> is/are allowed. free & prior art			
6)🛛 C	Claim(s) <u>1-22,31,43-46 and 49-54</u> is/a	re rejected.		
	Claim(s) <u>23-30,32-35,47,48</u> is/are obje			
	Claim(s) are subject to restrictio	n and/or election requirement.		
	·	•		
	ne specification is objected to by the E			
	ne drawing(s) filed on is/are: a) Applicant may not request that any object	•		
	ne proposed drawing correction filed o			
	If approved, corrected drawings are requi			
	e oath or declaration is objected to by			
Priority un	der 35 U.S.C. §§ 119 and 120			
13)🛛 A	cknowledgment is made of a claim fo	r foreign priority under 35 U.S.C.	§ 119(a)-(d) or (f).	
a)	All b) Some * c) None of:			
1	. Certified copies of the priority do	cuments have been received.		
2	. Certified copies of the priority do	cuments have been received in /	Application No	
	Copies of the certified copies of the application from the Internati e the attached detailed Office action for	onal Bureau (PCT Rule 17.2(a)).		
	knowledgment is made of a claim for o			
a) [The translation of the foreign languk knowledgment is made of a claim for	age provisional application has t	been received.	
1) X Notice of 2) Notice of 2) of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO tion Disclosure Statement(s) (PTO-1449) Pape	-948) 5) 🗌 Notice of	Summary (PTO-413) Paper No(s) Informal Patent Application (PTO-152)	
S. Patent and Trade TO-326 (Rev.		Office Action Summary	Part of Paper No. 10	

Application/Control Number: 09/750,022 Art Unit: 1653

DETAILED ACTION

Status of the Claims

1. Claims 1-54 are pending.

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Applicants' amendment filed November 27, 2002 (Paper No. 8) is acknowledged.

Applicants' response has been fully considered. Claims 1, 14, 15 and 32 have been amended,

and claims 1-54 are examined.

Priority Document

2. The priority document (United Kingdom 9930882.7, filed December 30, 1999) is acknowledged (Paper No. 9).

Objection Withdrawn

3. The previous objection to claims 14, 15 and 32 is withdrawn in view of the amendment to the claim, and applicants' response at page 3 in Paper No. 8.

Rejection Withdrawn

Claim Rejections - 35 USC § 112

4. The previous rejection of claims 1-54, under 35 U.S.C.112, second paragraph, is

withdrawn in view of applicants' amendment to the claims, and applicants' response at pages 3-5

in Paper No. 8.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness

rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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5. Claims 1-10; 22, and 49-54 are rejected under 35 U.S.C. 103(a) as being unpatentable over Knudsen *et al.* (WO 99/43361) in view of Makino *et al.* (U. S. Patent 4,985,244).

Knudsen et al. teach a pharmaceutical composition comprising a GLP-2 derivative or analog, an isotonic agent such as mannitol, a buffer of histidine or sodium phosphate, a pharmaceutical acceptable carrier, a preservative and a surfactant, where the solubility and stability of GLP-2 is improved and the pharmaceutical formulation has pH 6.9 if phosphate buffer is used (page 4, line 19-29; page 3, lines 24-25; claims 1-4 and 10). The reference also indicates the concentration of the GLP-2 derivative is more than 0.5 mg and less than 100 mg/ml (page 4, lines 9-12; page 13, lines 16-19; claims 5-8), the formulation can be obtained in lyophilized form (page 13, line 10; claim 22), and the pharmaceutical composition can be administered by injection or means of infusion pump to treat small bowl syndrome or intestinal inflammation (page 12, lines 13-16; page 13, 16-24, claims 49-54). However, Knudsen et al. do not disclose using histidine as a stabilizing agent. Makino *et al.* disclose using 5% (w/v%) of histidine as a stabilizing agent in a vaccine composition (column 1, lines 15-20), which is about 1% (claim 9). At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to use the pharmaceutical composition of GLP-2 analogs as indicated by Knudsen et al. with the addition of a stabilizing agent taught by Makino et al. to treat a gastrointestinal disease because the addition of histidine can further improve the stability of the pharmaceutical formulation. Thus, the combined references result in the claimed invention and was, as a whole, prima facie obvious at the time the claimed invention was made.

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7. Claims 11, 12 and 31 are rejected under 35 U.S.C. 103(a) as being unpatentable over Knudsen *et al.* in view of Makino *et al.* as applied to claims 1-10 above, further in view of Hora *et al.* (U. S. Patent 5,997,856).

Knudsen et al. teach a pharmaceutical composition comprising a GLP-2 derivative or analog, an isotonic agent such as mannitol, a buffer of histidine or sodium phosphate, a pharmaceutical acceptable carrier, a preservative and a surfactant, where the solubility and stability of GLP-2 is improved and the pharmaceutical formulation has pH 6.9 if phosphate buffer is used (page 4, line 19-29; page 3, lines 24-25; claims 1-4 and 10), the concentration of the GLP-2 derivative is more than 0.5 mg and less than 100 mg/ml (page 4, lines 9-12; page 13, lines 16-19; claims 5-8), and Makino et al. disclose using 5% (w/v%) of histidine as a stabilizing agent in a vaccine composition (column 1, lines 15-20), which is about 1% (claim 9). However, Knudsen et al. and Makino et al. do not disclose the concentration of mannitol in the pharmaceutical composition. Hora et al. disclose 1-5% mannitol is used as a bulking agent in a protein preparation (column 25, lines 7-14). At the time the invention was made, it would have been obvious to a person of ordinary skill in the art using the pharmaceutical formulation of GLP-2 analogs as indicated by Knudsen et al. and Makino et al. with a known concentration of mannitol taught by Hora et al. (claims 11, 12 and 31) to treat a gastrointestinal disease because the addition of a known concentration of mannitol can further improve the stability of the pharmaceutical composition. Thus, the combined references result in the claimed invention and was, as a whole, prima facie obvious at the time the claimed invention was made.

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