

# (12) International Application Status Report

**Received at International Bureau:** 05 April 2007 (05.04.2007)

**Information valid as of:** (..)

**Report generated on:** 04 August 2021 (04.08.2021)

**(10) Publication number:**

WO2007/094982

**(43) Publication date:**

23 August 2007 (23.08.2007)

**(26) Publication language:**

English (EN)

**(21) Application Number:**

PCT/US2007/002962

**(22) Filing Date:**

01 February 2007 (01.02.2007)

**(25) Filing language:**

English (EN)

**(31) Priority number(s):**

11/276,044 (US)

**(31) Priority date(s):**

10 February 2006 (10.02.2006)

**(31) Priority status:**

Priority document received (in compliance with PCT Rule 17.1)

**(51) International Patent Classification:**

*H04L 12/28* (2006.01); *G06Q 30/00* (2012.01); *H04B 7/26* (2006.01)

**(71) Applicant(s):**

3M INNOVATIVE PROPERTIES COMPANY [US/US]; 3M Center Post Office Box 33427 Saint Paul, Minnesota 55133-3427 (US) (for all designated states except US)

**(72) Inventor(s):**

AWISZUS, Steven T.; 3M Center Post Office Box 33427 Saint Paul, Minnesota 55133-3427 (US)

**(74) Agent(s):**

BUCKINGHAM, Stephen W.; 3M Center Office of Intellectual Property Counsel Post Office Box 33427 Saint Paul, Minnesota 55133-3427 (US)

**(54) Title (EN):** ORDER TAKING SYSTEM FOR A QUICK SERVICE RESTAURANT USING MULTIPLE WIRELESS COMMUNICATION CHANNELS

**(54) Title (FR):** SYSTÈME DE PRISE DE COMMANDE DESTINÉ À UN RESTAURANT DE RESTAURATION RAPIDE FAISANT APPEL À PLUSIEURS CANAUX DE COMMUNICATION SANS FIL

**(57) Abstract:**

**(EN):** Order taking system for a quick service restaurant enabling a customer to place an order for an item from a drive-through lane, the quick service restaurant having a plurality of staff persons for completing the order. A drive-through order point is positioned in the proximity of the drive-through lane. A plurality of wearable headsets are adapted to be used by the plurality of staff persons. A first wireless voice communication link exists between the drive-through order point and a base station. A second wireless voice communication link exists between the base station and the plurality of headsets. At least one of the plurality of staff persons is able to communicate by voice with the customer at the drive-through lane using the first wireless voice communication link and the second wireless voice communication link. A third wireless voice communication link may exist between the drive-through order point and at least one of the plurality of headsets allowing the drive-through order point to function as a repeater in voice communications between the base station and at least one of the plurality of staff persons. A fourth wireless voice communication link may exist between one the plurality of headsets and another of the plurality of headsets allowing the first of the plurality of headsets to function as a repeater in voice communications between the base station and at least one of the plurality of staff persons.

**(FR):** L'invention concerne un système de prise de commande destiné à un restaurant de restauration rapide. Ce système permet à un client de passer une commande pour un article, en restant au volant de son véhicule, sur une voie spécialement conçue à cet effet. Ce restaurant de restauration rapide présente une pluralité de membres du personnel pour s'occuper de ladite commande. Un point de commande de est situé près de la voie spéciale de la station restaurant. Une pluralité de casques téléphoniques portables sont conçus pour être utilisés par la pluralité des membres du personnel. Une première liaison de communication vocale sans fil existe entre le point de passage de commande de la station restaurant et une station de base. Une seconde liaison de communication vocale sans fil existe entre la station de base et la pluralité de casques téléphoniques. Au moins un membre du personnel peut communiquer vocalement avec le client qui se trouve sur la voie spéciale de la station restaurant, par la première

liaison de communication vocale sans fil et par la seconde liaison de communication vocale sans fil. Une troisième liaison de communication vocale sans fil peut exister entre le point de commande de la voie spéciale de la station restaurant et au moins un casque téléphonique, ce qui permet au point de passage de commande de la station restaurant de servir de répéteur, dans les communications vocales entre la station de base et au moins un membre du personnel. Une quatrième liaison de communication vocale sans fil peut exister entre un casque téléphonique et un autre casque téléphonique, ce qui permet au premier casque téléphonique de servir de répéteur dans des communications vocales entre la station de base et au moins un membre du personnel.

### **International search report:**

Received at International Bureau: 10 July 2007 (10.07.2007) [KR]

### **International Report on Patentability (IPRP) Chapter II of the PCT:**

Not available

### **(81) Designated States:**

AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW

European Patent Office (EPO) : AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR

African Intellectual Property Organization (OAPI) : BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

African Regional Intellectual Property Organization (ARIPO) : BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW

Eurasian Patent Organization (EAPO) : AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

### **Declarations:**

Declaration made as applicant's entitlement, as at the international filing date, to apply for and be granted a patent (Rules 4.17(ii) and 51bis.1(a)(ii)), in a case where the declaration under Rule 4.17(iv) is not appropriate

Declaration made as applicant's entitlement, as at the international filing date, to claim the priority of the earlier application, where the applicant is not the applicant who filed the earlier application or where the applicant's name has changed since the filing of the earlier application (Rules 4.17(iii) and 51bis.1(a)(iii))