UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
15/984,760	05/21/2018	Kyle Thomas Kestner	29178/50736CON

CONFIRMATION NO. 1068

POA ACCEPTANCE LETTER

26753
ANDRUS INTELLECTUAL PROPERTY LAW, LLP
100 EAST WISCONSIN AVENUE, SUITE 1100
MILWAUKEE, WI 53202

OC000000113078830

Date Mailed: 12/04/2019

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 12/02/2019.

The Power of Attorney in this application is accepted. Correspondence in this application will be mailed to the above address as provided by 37 CFR 1.33.

Questions about the contents of this notice and the requirements it sets forth should be directed to the Office of Data Management, Application Assistance Unit, at **(571) 272-4000** or **(571) 272-4200** or **1-888-786-0101**.

/mteklemichael/

Duke Manufacturing Co. EX1002
U.S. Patent No. 10,512,363

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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
15/984,760	05/21/2018	Kyle Thomas Kestner	29178/50736CON

CONFIRMATION NO. 1068

POWER OF ATTORNEY NOTICE

4743
MARSHALL, GERSTEIN & BORUN LLP
233 SOUTH WACKER DRIVE
6300 WILLIS TOWER
CHICAGO, IL 60606-6357

OC000000113078773

Date Mailed: 12/04/2019

NOTICE REGARDING CHANGE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 12/02/2019.

- The Power of Attorney to you in this application has been revoked by the applicant. Future correspondence will be mailed to the new address of record(37 CFR 1.33).

Questions about the contents of this notice and the requirements it sets forth should be directed to the Office of Data Management, Application Assistance Unit, at **(571) 272-4000** or **(571) 272-4200** or **1-888-786-0101**.

/mteklemichael/

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/984,760	12/24/2019	10512363	29178/50736CON	1068

26753 7590 12/04/2019

ANDRUS INTELLECTUAL PROPERTY LAW, LLP
100 EAST WISCONSIN AVENUE, SUITE 1100
MILWAUKEE, WI 53202

ISSUE NOTIFICATION

The projected patent number and issue date are specified above.

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)
(application filed on or after May 29, 2000)

The Patent Term Adjustment is 0 day(s). Any patent to issue from the above-identified application will include an indication of the adjustment on the front page.

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Application Assistance Unit (AAU) of the Office of Data Management (ODM) at (571)-272-4200.

APPLICANT(s) (Please see PAIR WEB site http://pair.uspto.gov for additional applicants):

Kyle Thomas Kestner, Schaumburg, IL;
PRINCE CASTLE LLC, Carol Stream, IL;
Christopher B. Lyons JR., LaGrange, IL;
Charles B. Hartfelder, Hanover Park, IL;
Zachary N. McCoy, South Elgin, IL;

The United States represents the largest, most dynamic marketplace in the world and is an unparalleled location for business investment, innovation, and commercialization of new technologies. The USA offers tremendous resources and advantages for those who invest and manufacture goods here. Through SelectUSA, our nation works to encourage and facilitate business investment. To learn more about why the USA is the best country in the world to develop technology, manufacture products, and grow your business, visit SelectUSA.gov.

PTO/AIA/80 (07-12)
Approved for use through 11/30/2014. OMB 0651-0035
U.S. Patent and Trademark Office; U.S DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

POWER OF ATTORNEY TO PROSECUTE APPLICATIONS BEFORE THE USPTO

I hereby revoke all previous powers of attorney given in the application identified in the attached statement under 37 CFR 3.73(c).

I hereby appoint:

☒ Practitioners associated with Customer Number: 26753

OR

☐ Practitioner(s) named below (if more than ten patent practitioners are to be named, then a customer number must be used):

Name	Registration Number	Name	Registration Number

As attorney(s) or agent(s) to represent the undersigned before the United States Patent and Trademark Office (USPTO) in connection with any and all patent applications assigned only to the undersigned according to the USPTO assignment records or assignments documents attached to this form in accordance with 37 CFR 3.73(c).

Please change the correspondence address for the application identified in the attached statement under 37 CFR 3.73(c) to:

☒ The address associated with Customer Number: 26753

OR

☐	Firm or Individual Name		
	Address		
	City	State	Zip
	Country		
	Telephone	Email	

Assignee Name and Address: Prince Castle LLC
355 East Kehoe Blvd
Carol Stream, IL 60188

A copy of this form, together with a statement under 37 CFR 3.73(c) (Form PTO/AIA/96 or equivalent) is required to be Filed in each application in which this form is used. The statement under 37 CFR 3.73(c) may be completed by one of The practitioners appointed in this form, and must identify the application in which this Power of Attorney is to be filed.

SIGNATURE of Assignee of Record

The individual whose signature and title is supplied below is authorized to act on behalf of the assignee

Signature	Loren VeHrop	Date	6/5/14
Name	Loren VeHrop	Telephone	630-462-4598
Title	VP Innovation		

This collection of information is required by 37 CFR 1.31, 1.32 and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

Privacy Act Statement

The **Privacy Act of 1974 (P.L. 93-579)** requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (*i.e.*, GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Electronic Acknowledgement Receipt

EFS ID:	37898857
Application Number:	15984760
International Application Number:	
Confirmation Number:	1068
Title of Invention:	MULTI-ZONE FOOD HOLDING BIN
First Named Inventor/Applicant Name:	Kyle Thomas Kestner
Customer Number:	4743
Filer:	Benjamin Ross Imhoff/Amanda White
Filer Authorized By:	Benjamin Ross Imhoff
Attorney Docket Number:	29178/50736CON
Receipt Date:	02-DEC-2019
Filing Date:	21-MAY-2018
Time Stamp:	14:50:25
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Power of Attorney	Prince_Castle_POA.pdf	778356 d97859cf899bd0d219d656d29f7a6bd77511c26c	no	2

Warnings:

Information:	
Total Files Size (in bytes):	778356

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/984,760	05/21/2018	Kyle Thomas Kestner	29178/50736CON	1068

4743 7590 11/18/2019

MARSHALL, GERSTEIN & BORUN LLP
233 SOUTH WACKER DRIVE
6300 WILLIS TOWER
CHICAGO, IL 60606-6357

EXAMINER	
PELHAM, JOSEPH MOORE	

ART UNIT	PAPER NUMBER
3761	

NOTIFICATION DATE	DELIVERY MODE
11/18/2019	ELECTRONIC

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

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

mgbdocket@marshallip.com

Corrected ***Notice of Allowability***	**Application No.** 15/984,760	**Applicant(s)** Kestner et al.	
	Examiner Joseph M Pelham	**Art Unit** 3761	**AIA (FITF) Status** Yes

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☑ This communication is responsive to TD of 9/27/19 and IDS of 10/7/19.
   ☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

2. ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.

3. ☑ The allowed claim(s) is/are 36-71 and 73 . As a result of the allowed claim(s), you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information , please see **http://www.uspto.gov/patents/init_events/pph/index.jsp** or send an inquiry to **PPHfeedback@uspto.gov.**

4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

   Certified copies:

   a) ☐ All b) ☐ Some *c) ☐ None of the:

   1. ☐ Certified copies of the priority documents have been received.
   2. ☐ Certified copies of the priority documents have been received in Application No. _____ .
   3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

   * Certified copies not received: _____ .

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
   ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____ .

   Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____.
3. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material _____.
4. ☐ Interview Summary (PTO-413), Paper No./Mail Date. _____.
5. ☐ Examiner's Amendment/Comment
6. ☐ Examiner's Statement of Reasons for Allowance
7. ☐ Other _____.

/JOSEPH M PELHAM/
Primary Examiner, Art Unit 3761

PART B–FEE(S) TRANSMITTAL

Complete and send this form, together with the applicable fee(s), by mail or fax, or via EFS-Web.

By mail, send to: Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

By fax, send to: (571) 273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

MARSHALL, GERSTEIN & BORUN LLP
233 S. Wacker Drive
6300 Willis Tower
Chicago, Illinois 60606-6357

APPLICATION NO	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO	CONFIRMATION NO
15/984,760	05/21/2018	Kyle Thomas Kestner	29178/50736CON	1068

TITLE OF INVENTION: MULTI-ZONE FOOD HOLDING BIN

APPLN: TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	$1,000.00			$1,000.00	

EXAMINER	ART UNIT	CLASS-SUBCLASS
J. M. Pelham	3761	219-398

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363)

☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.

☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-09 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list

(1) The names of up to 3 registered patent attorneys or agents OR, alternatively,

(2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1. MARSHALL, GERSTEIN & BORUN LLP
2.
3.

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document must have been previously recorded, or filed for recordation, as set forth in 37 CFR 3.11 and 37 CFR 3.81(a). Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE: PRINCE CASTLE LLC

(B) RESIDENCE: (CITY and STATE or COUNTRY): Carol Stream, Illinois

Please check the appropriate assignee category or categories (will not be printed on the patent): ☐ Individual ☒ Corporation or other private group entity ☐ Government

4a. Fees Submitted: ☒ Issue Fee ☐ Publication Fee (if required) ☐ Advance Order - # of Copies _____

4b. Method of Payment (*Please first reapply any previously paid fee shown above*):

☒ Electronic Payment via EFS-Web ☐ Enclosed check ☒ Non-electronic payment by credit card (Attach form PTO-2038)

☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment to Deposit Account No. 13-2855

5. Change of Entity Status (from status indicated above)

☐ Applicant certifying micro entity status. See 37 CFR 1.29. NOTE: Absent a valid Certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.

☐ Applicant asserting small entity status. See 37 CFR 1.27. NOTE: If the application was previously under micro entity status, checking this box will be taken as a notification of loss of entitlement to micro entity status.

☐ Applicant changing to regular undiscounted fee status. NOTE: Checking this box will be taken as a notification of loss of entitlement to small or micro entity status, as applicable.

NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature /Michael A. Chinlund/ Date October 28, 2019

Typed or printed name Michael A. Chinlund Registration No. 55,064

Electronic Patent Application Fee Transmittal

Application Number:	15984760
Filing Date:	21-May-2018
Title of Invention:	MULTI-ZONE FOOD HOLDING BIN
First Named Inventor/Applicant Name:	Kyle Thomas Kestner
Filer:	Michael Alexander Chinlund/Diane Arpino
Attorney Docket Number:	29178/50736CON

Filed as Large Entity

Filing Fees for Utility under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
UTILITY APPL ISSUE FEE	1501	1	1000	1000

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Extension-of-Time:				
Miscellaneous:				
			Total in USD ($)	**1000**

Electronic Acknowledgement Receipt

EFS ID:	37581718
Application Number:	15984760
International Application Number:	
Confirmation Number:	1068
Title of Invention:	MULTI-ZONE FOOD HOLDING BIN
First Named Inventor/Applicant Name:	Kyle Thomas Kestner
Customer Number:	4743
Filer:	Michael Alexander Chinlund/Diane Arpino
Filer Authorized By:	Michael Alexander Chinlund
Attorney Docket Number:	29178/50736CON
Receipt Date:	28-OCT-2019
Filing Date:	21-MAY-2018
Time Stamp:	17:04:56
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	$1000
RAM confirmation Number	E20190RH05394878
Deposit Account	132855
Authorized User	Diane Arpino
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows: 37 CFR 1.16 (National application filing, search, and examination fees) 37 CFR 1.17 (Patent application and reexamination processing fees)	

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Issue Fee Payment (PTO-85B)	Issue_Fee_Transmittal.PDF	34301 18fc6773f48fb80f0256b43dcd7bba0a5875ea68	no	1
Warnings:					
Information:					
2	Fee Worksheet (SB06)	fee-info.pdf	30530 d2b00e6c5a0015fa4bc0dcf6308c1c973b4bea8a	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	64831		

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

NOTICE OF ALLOWANCE AND FEE(S) DUE

4743 7590 10/28/2019

MARSHALL, GERSTEIN & BORUN LLP
233 SOUTH WACKER DRIVE
6300 WILLIS TOWER
CHICAGO, IL 60606-6357

EXAMINER
PELHAM, JOSEPH MOORE

ART UNIT	PAPER NUMBER
3761	

DATE MAILED: 10/28/2019

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/984,760	05/21/2018	Kyle Thomas Kestner	29178/50736CON	1068

TITLE OF INVENTION: MULTI-ZONE FOOD HOLDING BIN

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	$1000	$0.00	$0.00	$1000	01/28/2020

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the ENTITY STATUS shown above. If the ENTITY STATUS is shown as SMALL or MICRO, verify whether entitlement to that entity status still applies.

If the ENTITY STATUS is the same as shown above, pay the TOTAL FEE(S) DUE shown above.

If the ENTITY STATUS is changed from that shown above, on PART B - FEE(S) TRANSMITTAL, complete section number 5 titled "Change in Entity Status (from status indicated above)".

For purposes of this notice, small entity fees are 1/2 the amount of undiscounted fees, and micro entity fees are 1/2 the amount of small entity fees.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Maintenance fees are due in utility patents issuing on applications filed on or after Dec. 12, 1980. It is patentee's responsibility to ensure timely payment of maintenance fees when due. More information is available at www.uspto.gov/PatentMaintenanceFees.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), by mail or fax, or via EFS-Web.

By mail, send to: Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

By fax, send to: (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

4743 7590 10/28/2019

MARSHALL, GERSTEIN & BORUN LLP
233 SOUTH WACKER DRIVE
6300 WILLIS TOWER
CHICAGO, IL 60606-6357

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being transmitted to the USPTO via EFS-Web or by facsimile to (571) 273-2885, on the date below.

(Typed or printed name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/984,760	05/21/2018	Kyle Thomas Kestner	29178/50736CON	1068

TITLE OF INVENTION: MULTI-ZONE FOOD HOLDING BIN

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	$1000	$0.00	$0.00	$1000	01/28/2020

EXAMINER	ART UNIT	CLASS-SUBCLASS
PELHAM, JOSEPH MOORE	3761	219-388000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

❑ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.

❑ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-09 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list

(1) The names of up to 3 registered patent attorneys or agents OR, alternatively,

(2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1 _____

2 _____

3 _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document must have been previously recorded, or filed for recordation, as set forth in 37 CFR 3.11 and 37 CFR 3.81(a). Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent) : ❑ Individual ❑ Corporation or other private group entity ❑ Government

4a. Fees submitted: ❑ Issue Fee ❑ Publication Fee (if required) ❑ Advance Order - # of Copies _____

4b. Method of Payment: *(Please first reapply any previously paid fee shown above)*

❑ Electronic Payment via EFS-Web ❑ Enclosed check ❑ Non-electronic payment by credit card (Attach form PTO-2038)

❑ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment to Deposit Account No. _____

5. **Change in Entity Status** (from status indicated above)

❑ Applicant certifying micro entity status. See 37 CFR 1.29

❑ Applicant asserting small entity status. See 37 CFR 1.27

❑ Applicant changing to regular undiscounted fee status.

NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.
NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.
NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature _____ Date _____

Typed or printed name _____ Registration No. _____

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/984,760	05/21/2018	Kyle Thomas Kestner	29178/50736CON	1068

4743 7590 10/28/2019

MARSHALL, GERSTEIN & BORUN LLP
233 SOUTH WACKER DRIVE
6300 WILLIS TOWER
CHICAGO, IL 60606-6357

EXAMINER	
PELHAM, JOSEPH MOORE	
ART UNIT	PAPER NUMBER
3761	

DATE MAILED: 10/28/2019

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)
(Applications filed on or after May 29, 2000)

The Office has discontinued providing a Patent Term Adjustment (PTA) calculation with the Notice of Allowance.

Section 1(h)(2) of the AIA Technical Corrections Act amended 35 U.S.C. 154(b)(3)(B)(i) to eliminate the requirement that the Office provide a patent term adjustment determination with the notice of allowance. See Revisions to Patent Term Adjustment, 78 Fed. Reg. 19416, 19417 (Apr. 1, 2013). Therefore, the Office is no longer providing an initial patent term adjustment determination with the notice of allowance. The Office will continue to provide a patent term adjustment determination with the Issue Notification Letter that is mailed to applicant approximately three weeks prior to the issue date of the patent, and will include the patent term adjustment on the patent. Any request for reconsideration of the patent term adjustment determination (or reinstatement of patent term adjustment) should follow the process outlined in 37 CFR 1.705.

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

OMB Clearance and PRA Burden Statement for PTOL-85 Part B

The Paperwork Reduction Act (PRA) of 1995 requires Federal agencies to obtain Office of Management and Budget approval before requesting most types of information from the public. When OMB approves an agency request to collect information from the public, OMB (i) provides a valid OMB Control Number and expiration date for the agency to display on the instrument that will be used to collect the information and (ii) requires the agency to inform the public about the OMB Control Number's legal significance in accordance with 5 CFR 1320.5(b).

The information collected by PTOL-85 Part B is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450. Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Notice of Allowability	Application No. 15/984,760	Applicant(s) Kestner et al.	
	Examiner Joseph M Pelham	Art Unit 3761	AIA (FITF) Status Yes

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☑ This communication is responsive to TD of 9/27/19 and IDS of 10/7/19.
   ☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

2. ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.

3. ☑ The allowed claim(s) is/are _____ . As a result of the allowed claim(s), you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see **http://www.uspto.gov/patents/init_events/pph/index.jsp** or send an inquiry to **PPHfeedback@uspto.gov.**

4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

   Certified copies:

   a) ☐ All b) ☐ Some *c) ☐ None of the:

   1. ☐ Certified copies of the priority documents have been received.
   2. ☐ Certified copies of the priority documents have been received in Application No. _____ .
   3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

   * Certified copies not received: _____ .

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
   ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____ .

   Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☑ Notice of References Cited (PTO-892)
2. ☑ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____.
3. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material _____.
4. ☐ Interview Summary (PTO-413), Paper No./Mail Date. _____.
5. ☐ Examiner's Amendment/Comment
6. ☐ Examiner's Statement of Reasons for Allowance
7. ☐ Other _____.

/JOSEPH M PELHAM/
Primary Examiner, Art Unit 3761

Notice of References Cited	Application/Control No. 15/984,760	Applicant(s)/Patent Under Reexamination Kestner et al.	
	Examiner Joseph M Pelham	Art Unit 3761	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A	US-20100288748-A1	11-2010	Fortmann; Robert C.	F24C15/166	219/385
*	B	US-5093556-A	03-1992	Oelfke; Clifford M.	A47J39/006	219/386
	C					
	D					
	E					
	F					
	G					
	H					
	I					
	J					
	K					
	L					
	M					

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	CPC Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
	V	
	W	
	X	

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	15/984,760	Kestner et al.
	Examiner	**Art Unit**
	Joseph M Pelham	3761

CPC								
Symbol							**Type**	**Version**
A47J	/	39	/	006			F	2013-01-01
A47J	/	36	/	2483			I	2013-01-01
A47J	/	36	/	2488			I	2013-01-01
F24C	/	15	/	18			A	2013-01-01

CPC Combination Sets								
Symbol					**Type**	**Set**	**Ranking**	**Version**
	/		/					

NONE		Total Claims Allowed:	
(Assistant Examiner)	(Date)	37	
/JOSEPH M PELHAM/ Primary Examiner, Art Unit 376153	14 October 2019	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	1,2

U.S. Patent and Trademark Office — Part of Paper No.: 20191014

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	15/984,760	Kestner et al.
	Examiner	**Art Unit**
	Joseph M Pelham	3761

INTERNATIONAL CLASSIFICATION					
CLAIMED					
A47J	/	36	/	24	
A47J	/	39	/	02	

NON-CLAIMED				
	/		/	

US ORIGINAL CLASSIFICATION	
CLASS	**SUBCLASS**
219	214

CROSS REFERENCES(S)						
CLASS	**SUBCLASS (ONE SUBCLASS PER BLOCK)**					
219	385	386	394	398	428	

NONE		**Total Claims Allowed:**	
(Assistant Examiner)	(Date)	37	
/JOSEPH M PELHAM/ Primary Examiner, Art Unit 376153	14 October 2019	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	1,2

U.S. Patent and Trademark Office — Part of Paper No.: 20191014

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	15/984,760	Kestner et al.
	Examiner	**Art Unit**
	Joseph M Pelham	3761

☑ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIMS

Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original

NONE		**Total Claims Allowed:**	
(Assistant Examiner)	(Date)	37	
/JOSEPH M PELHAM/ Primary Examiner, Art Unit 376153	14 October 2019	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	1,2

U.S. Patent and Trademark Office Part of Paper No.: 20191014

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	15/984,760	Kestner et al.
	Examiner	Art Unit
	Joseph M Pelham	3761

CPC - Searched*		
Symbol	Date	Examiner
See attached search history	06/22/2019	JP
See attached search update history	10/15/2019	JP

CPC Combination Sets - Searched*		
Symbol	Date	Examiner

US Classification - Searched*			
Class	Subclass	Date	Examiner

* See search history printout included with this form or the SEARCH NOTES box below to determine the scope of the search.

Search Notes		
Search Notes	Date	Examiner
See attached search history	06/22/2019	JP
InnovationQ concept search at IP.com using US PGPub.	06/21/2019	JP
Inventor name search	06/22/2019	JP
See attached search update history	10/15/2019	JP

Interference Search			
US Class/CPC Symbol	US Subclass/CPC Group	Date	Examiner
See attached interference search history		10/15/2019	JP

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L2	109	(A47J36/$ A47J39/$ F24C15/$).cpc. and ((bay stage staging display service bin holding holder dispensing dispenser) near5 (food meal tray pan vessel)) and (bottom floor surface plate panel) and ((heater heating) near5 (individual individually independent independently)) and ((lid cover) near5 (tray pan vessel))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2019/10/14 23:45
L3	89	(A47J36/$ A47J39/$ F24C15/$).cpc. and ((bay stage staging display service bin holding holder dispensing dispenser) near3 (food meal)) and (bottom floor surface plate panel) and ((heater heating) near5 (individual individually independent independently)) and ((tray bay stage staging display service bin holding holder dispensing dispenser) near3 (tray pan vessel dish chafer chafing)) and ((lid cover) near5 (tray pan vessel dish chafer chafing))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2019/10/14 23:46
L4	25	2 not L3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2019/10/14 23:46

EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L5	3	(((bay stage staging display service bin holding holder dispensing dispenser) near5 (food meal tray pan vessel)) and (bottom floor surface plate panel) and ((heater heating) near5 (individual individually independent independently)) and ((lid cover) near5 (tray pan vessel))).clm.	US-PGPUB	OR	ON	2019/10/14 23:47

10/14/2019 11:48:38 PM
C:\Users\jpelham\Documents\EAST\Workspaces\15.984760.wsp

PTO/SB/08a (07-09)
Approved for use through 11/30/2020. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 1 of 2

Complete if Known	
Application Number	15/984,760-Conf. #1068
Filing Date	May 21, 2018
First Named Inventor	Kyle Thomas Kestner
Art Unit	3761
Examiner Name	J. M. Pelham
Attorney Docket Number	29178/50736CON

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Document Number Number-Kind Code[2] *(if known)*	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Foreign Patent Document Country Code[3] -Number[4] -Kind Code[5] *(if known)*	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T[6]

Examiner Signature	/JOSEPH M PELHAM/	Date Considered	10/14/2019

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /J.M.P/

PTO/SB/08b (07-09)
Approved for use through 11/30/2020. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet	2	of	2

Complete if Known	
Application Number	15/984,760-Conf. #1068
Filing Date	May 21, 2018
First Named Inventor	Kyle Thomas Kestner
Art Unit	3761
Examiner Name	J. M. Pelham
Attorney Docket Number	29178/50736CON

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[2]
	A	Prince Castle LLC, Holding Bin DHB3PT-33DD, June 2015.	
	B	Prince Castle LLC, Original Instructions Operation Manual for Holding Ben DHB3PT-33DD, DHB3SS-33DD, available prior to April 19, 2016.	

Examiner Signature	/JOSEPH M PELHAM/	Date Considered	10/14/2019

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /J.M.P/

PTO/SB/08a (07-09)
Approved for use through 11/30/2020. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet	1	of	2

Complete if Known	
Application Number	15/984,760-Conf. #1068
Filing Date	May 21, 2018
First Named Inventor	Kyle Thomas Kestner
Art Unit	3761
Examiner Name	J. M. Pelham
Attorney Docket Number	29178/50736CON

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Document Number Number-Kind Code[2] *(if known)*	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Foreign Patent Document Country Code[3] -Number[4] -Kind Code[5] *(if known)*	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T[6]

Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

PTO/SB/08b (07-09)
Approved for use through 11/30/2020. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet	2	of	2

Complete if Known	
Application Number	15/984,760-Conf. #1068
Filing Date	May 21, 2018
First Named Inventor	Kyle Thomas Kestner
Art Unit	3761
Examiner Name	J. M. Pelham
Attorney Docket Number	29178/50736CON

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[2]
	A	Prince Castle LLC, Holding Bin DHB3PT-33DD, June 2015.	
	B	Prince Castle LLC, Original Instructions Operation Manual for Holding Ben DHB3PT-33DD, DHB3SS-33DD, available prior to April 19, 2016.	

Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

Electronic Patent Application Fee Transmittal

Application Number:	15984760
Filing Date:	21-May-2018
Title of Invention:	MULTI-ZONE FOOD HOLDING BIN
First Named Inventor/Applicant Name:	Kyle Thomas Kestner
Filer:	Andrew Michael Lawrence/Diane Arpino
Attorney Docket Number:	29178/50736CON

Filed as Large Entity

Filing Fees for Utility under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Miscellaneous:				
SUBMISSION- INFORMATION DISCLOSURE STMT	1806	1	240	240
		Total in USD ($)		**240**

Electronic Acknowledgement Receipt

EFS ID:	37387217
Application Number:	15984760
International Application Number:	
Confirmation Number:	1068
Title of Invention:	MULTI-ZONE FOOD HOLDING BIN
First Named Inventor/Applicant Name:	Kyle Thomas Kestner
Customer Number:	4743
Filer:	Andrew Michael Lawrence/Diane Arpino
Filer Authorized By:	Andrew Michael Lawrence
Attorney Docket Number:	29178/50736CON
Receipt Date:	07-OCT-2019
Filing Date:	21-MAY-2018
Time Stamp:	17:34:14
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	$240
RAM confirmation Number	E201907H35165032
Deposit Account	132855
Authorized User	Diane Arpino

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

37 CFR 1.16 (National application filing, search, and examination fees)

37 CFR 1.17 (Patent application and reexamination processing fees)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Transmittal Letter	Information_Disclosure_Statement.PDF	17968 7c4644b513aea36d0c3b614d49a52fd7895792a5	no	2
Warnings:					
Information:					
2	Information Disclosure Statement (IDS) Form (SB08)	IDS_Citation_by_Applicant_4_References.PDF	34678 116f8c219930c1bfeb27b16e1b66493c4e2444c7	no	2
Warnings:					
Information:					
This is not an USPTO supplied IDS fillable form					
3	Non Patent Literature	Holding_Bin_June_2015_NPL.PDF	6478724 669303c4c65f08749df719b20635816f85dc5c5e	no	2
Warnings:					
Information:					
4	Non Patent Literature	Original_Instructions_Operation_Manual_NPL.PDF	3975083 cad2b4b89f3e60b036b05cdf429675be759d5a1a	no	18
Warnings:					
Information:					
5	Fee Worksheet (SB06)	fee-info.pdf	30581 23ab8e835364538664c653acf395f52697b42e55	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	10537034		

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New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

Docket No.: 29178/50736CON
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:
Kyle Thomas Kestner et al.

Application No.: 15/984,760 Confirmation No.: 1068

Filed: May 21, 2018 Art Unit: 3761

For: MULTI-ZONE FOOD HOLDING BIN Examiner: J. M. Pelham

INFORMATION DISCLOSURE STATEMENT (IDS)

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

The IDS submitted herewith provides two printed publications:

- Citation No. 1 – "Original Instructions Operation Manual"
- Citation No. 2 – "Holding Bin DHB3PT-33DD"

Citation No. 1 identifies a printing date of June 2015. Applicant admits that the publication of Citation No. 2 was available prior to April 19, 2016. It is not apparent from the disclosure themselves in either of these references that such disclosures are by the inventor or a joint inventor of the present application. (MPEP 2153.01(a)) Therefore it is respectfully submitted that these references be considered for examination under 35 USC 102(a)(1). (See MPEP 2153.01(a))

However, Applicant reserves all right to provide evidence of qualification to any of the exceptions to 102(a)(1) found in 35 USC 102(b)(1) as provided by MPEP 2153 and 2155.

Our Credit Card has been charged in the amount of $240.00 covering the fee set forth in 37 C.F.R. § 1.17(p). The Director is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which should have been filed herewith (or with any paper hereafter filed in this application by this firm) to our Deposit Account No. 13-2855, under Order No. 29178/50736CON.

Dated: October 7, 2019

Respectfully submitted,

By /Andrew M. Lawrence/
Andrew M. Lawrence
Registration No.: 46,130
MARSHALL, GERSTEIN & BORUN LLP
233 S. Wacker Drive
6300 Willis Tower
Chicago, Illinois 60606-6357
(312) 474-6300
Attorney for Applicant

Application Number * 15/984,760 *	Application/Control No. 15/984,760	Applicant(s)/Patent under Reexamination Kestner et al.	
	Examiner PELHAM, JOSEPH MOORE	Art Unit 3761	

Document Code - DISQ	Internal Document - DO NOT MAIL

TERMINAL DISCLAIMER	☑ APPROVED	☐ DISAPPROVED
Date Filed: 27 September 2019	This patent is subject to a Terminal Disclaimer	

Approved/Disapproved by:

/JEAN PROCTOR/

Technology Center: OPLC

Telephone: (571)272-1040

2 td's

United States Patent and Trademark Office

Office of the Chief Financial Officer

Document Code:WFEE

User :64734

Sale Accounting Date:09/30/2019

Sale Item Reference Number	Effective Date
15984760	09/27/2019

Document Number	Fee Code	Fee Code Description	Amount Paid	Payment Method
I20199TG36583637	1814	STATUTORY OR TERMINAL DISCLAIMER	$160.00	Deposit Account

PTO/SB/06 (09-11)
Approved for use through 1/31/2014. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 15/984,760	Filing Date 05/21/2018	☐ To be Mailed

ENTITY: ☑ LARGE ☐ SMALL ☐ MICRO

APPLICATION AS FILED - PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA		RATE ($)	FEE ($)
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A		N/A	
☐ SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A		N/A	
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A		N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 =	*		x $100 =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*		x $460 =	
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $310 ($155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).				
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))					
* If the difference in column 1 is less than zero, enter "0" in column 2.				TOTAL	

APPLICATION AS AMENDED - PART II

		(Column 1)		(Column 2)	(Column 3)			
AMENDMENT	09/27/2019	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		RATE ($)	ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	* 36	Minus	** 38	= 0		x $100 =	0
	Independent (37 CFR 1.16(h))	* 1	Minus	*** 3	= 0		x $460 =	0
	☐ Application Size Fee (37 CFR 1.16(s))							
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							
							TOTAL ADD'L FEE	0

		(Column 1)		(Column 2)	(Column 3)			
AMENDMENT		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		RATE ($)	ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	*	Minus	**	=		x $0 =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=		x $0 =	
	☐ Application Size Fee (37 CFR 1.16(s))							
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							
							TOTAL ADD'L FEE	

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.	LIE
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".	/ANGELONA D JONES/
*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".	
The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.	

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

PTO/AIA/25 (04-13)
Approved for use through 11/30/2020. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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TERMINAL DISCLAIMER TO OBVIATE A PROVISIONAL DOUBLE PATENTING REJECTION OVER A PENDING "REFERENCE" APPLICATION	Docket Number (Optional) 29178/50736CON

In re Application of: Kyle Thomas Kestner et al.

Application No.: 15/984,760-Conf. #1068

Filed: May 21, 2018

For: MULTI-ZONE FOOD HOLDING BIN

The applicant, PRINCE CASTLE LLC, owner of 100 percent interest in the instant application hereby disclaims, except as provided below, the terminal part of the statutory term of any patent granted on the instant application which would extend beyond the expiration date of the full statutory term of any patent granted on pending **reference** Application Numbers: **16/403,349**, filed May 3, 2019; **15/985,255**, filed May 21, 2018 and **16/403,415**, filed May 3, 2019

as the term of any patent granted on said **reference** application may be shortened by any terminal disclaimer filed prior to the grant of any patent on the pending **reference** application. The applicant hereby agrees that any patent so granted on the instant application shall be enforceable only for and during such period that it and any patent granted on the **reference** application are commonly owned. This agreement runs with any patent granted on the instant application and is binding upon the grantee, its successors or assigns.

In making the above disclaimer, the applicant does not disclaim the terminal part of any patent granted on the instant application that would extend to the expiration date of the full statutory term of any patent granted on said **reference** application, "as the term of any patent granted on said **reference** application may be shortened by any terminal disclaimer filed prior to the grant of any patent on the pending **reference** application," in the event that: any such patent granted on the pending **reference** application expires for failure to pay a maintenance fee, is held unenforceable, is found invalid by a court of competent jurisdiction, is statutorily disclaimed in whole or terminally disclaimed under 37 CFR 1.321, has all claims canceled by a reexamination certificate, is reissued, or is in any manner terminated prior to the expiration of its full statutory term as shortened by any terminal disclaimer filed prior to its grant.

Check either box 1 or 2 below, if appropriate.

1. ☐ The undersigned is the applicant. If the applicant is an assignee, the undersigned is authorized to act on behalf of the assignee.

I hereby acknowledge that any willful false statements made are punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

2. ☒ The undersigned is an attorney or agent of record. Reg. No. 55,064

/Michael A. Chinlund/ — Signature
September 27, 2019 — Date

Michael A. Chinlund — Typed or printed name

Attorney for Applicant(s) — Title
(312) 474-6300 — Telephone Number

☒ Terminal disclaimer fee under 37 CFR 1.20(d) is included.

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

Electronic Patent Application Fee Transmittal

Application Number:	15984760
Filing Date:	21-May-2018
Title of Invention:	MULTI-ZONE FOOD HOLDING BIN
First Named Inventor/Applicant Name:	Kyle Thomas Kestner
Filer:	Michael Alexander Chinlund/Diane Arpino
Attorney Docket Number:	29178/50736CON

Filed as Large Entity

Filing Fees for Utility under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Miscellaneous:				
STATUTORY OR TERMINAL DISCLAIMER	1814	1	160	160
		Total in USD ($)		**160**

Electronic Acknowledgement Receipt

EFS ID:	37296855
Application Number:	15984760
International Application Number:	
Confirmation Number:	1068
Title of Invention:	MULTI-ZONE FOOD HOLDING BIN
First Named Inventor/Applicant Name:	Kyle Thomas Kestner
Customer Number:	4743
Filer:	Michael Alexander Chinlund/Diane Arpino
Filer Authorized By:	Michael Alexander Chinlund
Attorney Docket Number:	29178/50736CON
Receipt Date:	27-SEP-2019
Filing Date:	21-MAY-2018
Time Stamp:	11:03:44
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	$160
RAM confirmation Number	E20199QB04159454
Deposit Account	132855
Authorized User	Diane Arpino

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

37 CFR 1.16 (National application filing, search, and examination fees)

37 CFR 1.17 (Patent application and reexamination processing fees)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		Amendment_in_Response_to_Non-Final_Office_Action_Under_37 CFR1.PDF	51203 08be851321cc58cdb31e22ad6944690f268217a4	yes	10

	Multipart Description/PDF files in .zip description		
	Document Description	**Start**	**End**
	Applicant Arguments/Remarks Made in an Amendment	9	10
	Claims	2	8
	Amendment/Req. Reconsideration-After Non-Final Reject	1	1

Warnings:

Information:

2	Terminal Disclaimer Filed	Terminal_Disclaimer.PDF	22163 aa726e90bebe39a630e2202781d211f6feefe047	no	2

Warnings:

Information:

3	Terminal Disclaimer Filed	Terminal_Disclaimer3.PDF	20878 1dbfe77928f1c124f3a763ac5b14431cf567cb3d	no	1

Warnings:

Information:

4	Fee Worksheet (SB06)	fee-info.pdf	30667 a442e4dd91b6dd347010ac9aa85105313ff806a5	no	2

Warnings:

Information:

Total Files Size (in bytes):	124911

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

REMARKS

This paper is presented in response to the non-final office action dated June 28, 2019, in which (a) claims 36-73 were pending, (b) claims 36, 37, 47-59, and 64-73 were rejected on the ground of nonstatutory double patenting over claims 1-3 and 5-10 of U.S. Patent No. 9,976,750; (c) claims 36-73 were rejected on the ground of nonstatutory double patenting over claims 1-27 of copending Application No. 16/403,349; (d) claims 36-73 were rejected on the ground of nonstatutory double patenting over claims 34-67 of copending Application No. 15/985,255; (e) claims 34, 44-55, and 59-67 were rejected on the ground of nonstatutory double patenting over claims 1-10 of U.S. Patent No. 9,980,322; (f) claims 36, 37, 39, 40-43, 46-49, and 73 were rejected on the ground of nonstatutory double patenting over claims 1-27 of copending Application No. 16/403,415; and (g) claims 36-73 were rejected under 35 U.S.C. §112 as allegedly being indefinite.

The applicant respectfully traverses the rejections and requests that they be withdrawn.

Claims 36, 65-68, 71, and 73 are amended to correct minor typographical errors and claim 72 is cancelled. No new matter is added. As a result, claims 36-71 and 73 remain pending and at issue.

This paper is timely filed.

Nonstatutory Double Patenting Rejections

The applicant respectfully submits that the nonstatutory double patenting rejections are addressed by the terminal disclaimer filed herewith. For this reason, the applicant respectfully requests withdrawal of the double patenting rejections.

35 U.S.C. §112 Rejections

The applicant respectfully submits that the minor antecedent basis errors identified in the office action do not render the claims indefinite under § 112 because a claim is considered definite as long as "the scope of the claims is clear so the public is informed of the boundaries of what constitutes infringement of the patent." M.P.E.P § 2173. Here, one of ordinary skill in the art readily understand what was intended by the terms "food holding zones" and "food holding bay" as shown by the examiner's own comments regarding these terms at page 5 of the office action. Moreover, in view of the amendments presented herein, the antecedent basis errors have been corrected.

For these reasons, the applicant respectfully requests withdrawal of the rejections of claims 36-73.

With respect to the query about the term "food holding bay[s]" in some of the dependent claims, the claims using the term "bay" where temperature is controlled are amended to use the term "zone" as it is the zones that are independently controllable. *See* e.g., paragraph [0018] of the instant application where each bay in a particular zone has the same temperature. With respect to the claims using the term "bay" with reference to a bezel user interface and controller, each bay may have its own dedicated display and/or control. Id. In those cases, the term "bay" was not changed as the dedicated display and/or control displays temperature and/or additional information about the food stored in each individual bay.

Conclusion

In view of the foregoing amendments, the applicant believes the pending application is in condition for allowance.

The Director is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which, should have been filed wherewith (or with any paper hereafter filed in this application by this firm) to our Deposit Account No. 13-2855, under Order No. 29178/50736CON.

Dated: September 27, 2019

Respectfully submitted,

By_/Michael A. Chinlund/_____
Michael A. Chinlund
Registration No.: 55,064
MARSHALL, GERSTEIN & BORUN LLP
233 S. Wacker Drive
6300 Willis Tower
Chicago, Illinois 60606-6357
(312) 474-6300
Attorney for Applicant

AMENDMENTS TO THE CLAIMS

1-35. (Canceled).

36. (Currently Amended) A multi-zone food holding bin comprising:

a chassis having a top panel, a first side panel, a second side panel, a bottom panel, a front face, and an opposing rear face;

a first food holding compartment within the chassis, the first food holding compartment being defined by the first side panel, the second side panel, the top panel and a shelf, the top panel including at least one downwardly depending lid holding shelf, the first food holding compartment being substantially unobstructed between the first side panel and the second side panel and below the downwardly depending lid holding shelf;

a second food holding compartment disposed below the first food holding compartment within the chassis, the second food holding compartment being defined by the first side panel, the second side panel, the bottom panel and the shelf, the shelf including at least one downwardly depending lid holding shelf, the second food holding compartment being substantially unobstructed between the first side panel and the second side panel and below the downwardly depending lid holding shelf;

wherein the shelf is located between the first and second food holding compartments and comprises a first side and a second side, the first side facing into the first food holding compartment, the second side facing into the second food holding compartment, the first side defining a first substantially planar surface comprising a thermally conductive material forming a top surface of the shelf and forming a bottom surface of the first food holding compartment, the first substantially planar surface adapted to receive a tray for food items;

and wherein the bottom panel includes a second substantially planar surface comprising a thermally conductive material forming a bottom surface of the second food holding compartment, the second substantially planar surface adapted to receive a tray for food items;

a first opening in the front face of the chassis defined by the first substantially planar surface, the first side panel, the second side panel and the top panel, the first opening configured to allow the tray for food items to be passed through the first opening and onto the first substantially planar surface;

a second opening in the front face of the chassis defined by the second substantially planar surface, the first side panel, the second side panel and the shelf, the second opening configured to allow the tray for food items to be passed through the second opening and onto the second substantially planar surface;

a first food holding zone formed in the first food holding compartment, the first food holding zone having at least one independently controllable heating element disposed at a top portion of the first food holding compartment, and at least one independently controllable heating element disposed at a bottom portion of the first food holding compartment, the first food holding zone having a controllable first food holding temperature, the first food holding zone including a first food holding bay and a second food holding bay, each of the first and second food holding bays being configured to receive a food holding tray;

a second food holding zone formed in the first food holding compartment, the second food holding zone having at least one independently controllable heating element disposed at the top portion of the first food holding compartment and at least one independently controllable heating element disposed at the bottom portion of the first food holding compartment, the second food holding zone having a controllable second food holding temperature, the second food holding zone including a third food holding bay and a fourth food holding bay, each of the third and fourth food holding bays being configured to receive a food holding tray;

wherein the first food holding zone and the second food holding zone are adjacent one another across the first substantially planar surface;

a third food holding zone formed in the second food holding compartment, the third food holding zone having at least one independently controllable heating element disposed at a top portion of the second food holding compartment, and at least one independently controllable heating element disposed at a bottom portion of the second food holding compartment, the third food holding zone having a controllable third food holding temperature, the third food holding zone including a fifth food holding bay and a sixth food holding bay, each of the fifth and sixth food holding bays being configured to receive a food holding tray;

a fourth food holding zone formed in the second food holding compartment, the fourth food holding zone having at least one independently controllable heating element disposed at the top portion of the second food holding compartment and at least one independently controllable heating element disposed at the bottom portion of the second

food holding compartment, the fourth food holding zone having a controllable fourth food holding temperature, the fourth food holding zone including a seventh food holding bay and a eighth food holding bay, each of the seventh and eighth food holding bays being configured to receive a food holding tray;

wherein the third food holding zone and the fourth food holding zone are adjacent one another across the second substantially planar surface;

at least one user interface for controlling the food holding temperature of each food holding bay; and

a controller operatively coupled to the user interface and each heating element, the controller configured to independently operate each heating element such that each food holding zone [[bay]] has an independently controlled food holding temperature.

37. (Previously Presented) The food holding bin of claim 36, further comprising:

a third opening in the rear face of the chassis defined by the first substantially planar surface, the first side panel, the second side panel and the top panel, the third opening configured to allow the tray for food items to be passed through the third opening from the first substantially planar surface; and

a fourth opening in the rear face of the chassis defined by the second substantially planar surface, the first side panel, the second side panel and the shelf, the fourth opening configured to allow the tray for food items to be passed through the fourth opening from the second substantially planar surface.

38. (Previously Presented) The food holding bin of claim 36 wherein each interface is a graphical interface that displays the food holding temperature of each food holding bay.

39. (Previously Presented) The food holding bin of claim 36, further comprising a first bezel attached to the chassis, the first bezel providing at least one user interface comprising dedicated controls and/or dedicated displays for each of the first, second, third, and fourth food holding bays.

40. (Previously Presented) The food holding bin of claim 38, wherein the first bezel is set forward from the shelf and defining a space between the first bezel and the front face.

41. (Previously Presented) The food holding bin of claim 40, further comprising a latch moveable from a locked position to an unlocked position within the space between the first bezel and the front face.

42. (Previously Presented) The food holding bin of claim 39, wherein the first bezel provides at least one graphical interface comprising at least one dedicated display and the dedicated display displays a temperature setting for a corresponding food holding bay.

43. (Previously Presented) The food holding bin of claim 39, wherein the dedicated display displays additional information about a food item stored in the corresponding food holding bay.

44. (Previously Presented) The food holding bin of claim 42, wherein the dedicated display displays additional information about a food item stored in the corresponding food holding bay.

45. (Previously Presented) The food holding bin of claim 39, wherein the first bezel provides two user interfaces arranged horizontally beneath the first food holding zone and the second food holding zone, respectively.

46. (Previously Presented) The food holding bin of claim 37, further comprising at least two bezels attached to the chassis, a first bezel providing at least one user interface comprising dedicated controls and/or dedicated displays for each of the first, second, third, fourth, fifth, sixth, seventh, and eighth food holding bays, the first bezel located proximate the front face of the chassis; and a second bezel attached to the chassis, the second bezel providing at least one user interface comprising dedicated controls and/or dedicated displays for each of the first, second, third, fourth, fifth, sixth, seventh, and eighth food holding bays, the second bezel located proximate the opposing rear face of the chassis.

47. (Previously Presented) The food holding bin of claim 36, further comprising a latch disposed adjacent the first opening.

48. (Previously Presented) The food holding bin of claim 47, wherein the latch is located between the first food holding bay and the second food holding bay.

49. (Previously Presented) The food holding bin of claim 47, wherein the latch is rotatable or translatable from a first position to a second position.

50. (Previously Presented) The food holding bin of claim 36, further comprising at least one food holding tray resting on at least one substantially planar surface within one food holding bay.

51. (Previously Presented) The food holding bin of claim 50, wherein the independently controllable heating elements disposed at the bottom portion of the first and second food holding compartments provide heat energy to at least one food holding tray through conduction.

52. (Previously Presented) The food holding bin of claim 50, wherein the independently controllable heating elements disposed at the top portion of the first and second food holding compartments provide radiant heat to at least one food holding tray.

53. (Previously Presented) The food holding bin of claim 50, wherein the independently controllable heating elements disposed at the top portion of the first and second food holding compartments provide radiant heat energy to at least one food holding tray and the independently controllable heating elements disposed at the bottom portion of the first and second food holding compartments provide heat energy through conduction to at least one holding tray.

54. (Previously Presented) The food holding bin of claim 36, wherein the independently controllable heating elements comprise a resistive wire.

55. (Previously Presented) The food holding bin of claim 36, wherein at least one of the substantially planar surfaces is a continuous surface.

56. (Previously Presented) The food holding bin of claim 55, wherein at least one of the substantially planar surfaces is substantially free of any dividing walls or other structure between the first, second, third, and fourth food holding bays.

57. (Previously Presented) The food holding bin of claim 55, wherein at least one of the substantially planar surfaces is substantially free of any dividing walls or other structure between the fifth, sixth, seventh and eighth food holding bays.

58. (Previously Presented) The food holding bin of claim 50, wherein each food holding bay further comprises a lid holding shelf elevated above the substantially planar bottom surface in the first food holding compartment and the second food holding compartment, each lid holding shelf being configured to receive and store a lid for the food holding tray.

59. (Previously Presented) The food holding bin of claim 58, wherein a latch is disposed adjacent the first opening and is moveable between a locked position in which the latch prevents a lid from being removed from the lid holding shelf, and an unlocked position in which the latch allows removal of a lid from the lid holding shelf.

60. (Previously Presented) The food holding bin of claim 59, wherein the latch is rotatable and is biased into the locked position by gravity.

61. (Previously Presented) The food holding bin of claim 58, wherein the lid holding shelf comprises sheet metal.

62 (Previously Presented) The food holding bin of claim 58, wherein the lid holding shelf comprises a wire form.

63. (Previously Presented) The food holding bin of claim 36, wherein each independently controllable heating element disposed at the top portion of the first and second food holding compartments is adapted to output more heat energy than the independently controllable heating elements disposed at the bottom portion of the first and second food holding compartments.

64. (Previously Presented) The food holding bin of claim 36, wherein at least one substantially planar surface comprises aluminum.

65. (Currently Amended) The food holding bin of claim 36, wherein each of the food holding zones [[bays]] are each heated to different temperatures.

66. (Currently Amended) The food holding bin of claim 36, wherein two or more of the food holding zones [[bays]] are each heated to different temperatures.

67. (Currently Amended) The food holding bin of claim 36, wherein two or more of the food holding zones [[bays]] are each heated to the same temperature.

68. (Currently Amended) The food holding bin of claim 36, wherein the shelf comprises an upper thermally conductive plate disposed in the shelf and in thermal communication with the first side, a lower thermally conductive plate disposed in the shelf and in thermal communication with the second side, a first set of independently controllable heating elements in thermal communication with the upper thermally conductive plate, and a second set of independently controllable heating elements in thermal communication with the lower thermally conductive plate;

wherein the first set of independently controllable heating elements are capable of providing different amounts of heat energy into the first[[,]] and second~~, third and fourth~~ food holding zones [[bays]] of the first food holding compartment; and

wherein the second set of independently controllable heating elements are capable of providing different amounts of heat energy into the ~~fifth, sixth, seventh and eighth~~ third and fourth food holding zones [[bays]] of the second food holding compartment.

69. (Previously Presented) The food holding bin of claim 68, wherein an insulating material is provided between the first and second sets of independently controllable heating elements.

70. (Previously Presented) The food holding bin of claim 68, wherein each of the first and second sets of independently controllable heating elements comprise two heating elements.

71. (Currently Amended) The holding bin of claim 36, wherein the at least one user interface is configured to set the food holding temperature of each food holding zone [[bay]], and the first food holding zone [[bay]] is maintained at a first set food holding temperature, the second food holding zone [[bay]] is maintained at a second set food holding temperature, the third food holding zone [[bay]] is maintained at a third set food holding temperature, and the fourth food holding zone [[bay]] is maintained at a fourth food set holding temperature.

72. (Canceled).

73. (Currently Amended) The holding bin of claim 36, wherein the at least one user interface is configured to set the food holding temperature of each food holding zone [[bay]] and the controller independently operates each heating element such that each food holding zone [[bay]] is maintained at an independently set food holding temperature.

Docket No.: 29178/50736CON
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:
Kyle Thomas Kestner et al.

Application No.: 15/984,760 Confirmation No.: 1068

Filed: May 21, 2018 Art Unit: 3761

For: MULTI-ZONE FOOD HOLDING BIN Examiner: J. M. Pelham

AMENDMENT IN RESPONSE TO NON-FINAL OFFICE ACTION UNDER 37 C.F.R. § 1.111

MS Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

INTRODUCTORY COMMENTS

In response to the Office Action dated June 28, 2019, please amend the above-identified U.S. patent application as follows:

Amendments to the Claims are reflected in the listing of claims, which begins on page 2 of this paper.

Remarks begin on page 9 of this paper.

PTO/AIA/26 (04-14)
Approved for use through 11/30/2020. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

TERMINAL DISCLAIMER TO OBVIATE A DOUBLE PATENTING REJECTION OVER A "PRIOR" PATENT	Docket Number (Optional) 29178/50736CON

In re Application of: Kyle Thomas Kestner et al.

Application No.: 15/984,760-Conf. #1068

Filed: May 21, 2018

For: MULTI-ZONE FOOD HOLDING BIN

The applicant, PRINCE CASTLE LLC, owner of 100 percent interest in the instant application hereby disclaims, except as provided below, the terminal part of the statutory term of any patent granted on the instant application which would extend beyond the expiration date of the full statutory term of **prior patent** No. (see attached) as the term of said **prior patent** is presently shortened by any terminal disclaimer. The applicant hereby agrees that any patent so granted on the instant application shall be enforceable only for and during such period that it and the **prior patent** are commonly owned. This agreement runs with any patent granted on the instant application and is binding upon the grantee, its successors or assigns.

In making the above disclaimer, the applicant does not disclaim the terminal part of the term of any patent granted on the instant application that would extend to the expiration date of the full statutory term of the **prior patent**, "as the term of said **prior patent** is presently shortened by any terminal disclaimer," in the event that said **prior patent** later:

expires for failure to pay a maintenance fee;
is held unenforceable;
is found invalid by a court of competent jurisdiction;
is statutorily disclaimed in whole or terminally disclaimed under 37 CFR 1.321;
has all claims canceled by a reexamination certificate;
is reissued; or
is in any manner terminated prior to the expiration of its full statutory term as presently shortened by any terminal disclaimer.

Check either box 1 or 2 below, if appropriate.

1. ☐ The undersigned is the applicant. If the applicant is an assignee, the undersigned is authorized to act on behalf of the assignee.

I hereby acknowledge that any willful false statements made are punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

2. ☒ The undersigned is an attorney or agent of record. Reg. No. 55,064

/Michael A. Chinlund/ — Signature
September 27, 2019 — Date

Michael A. Chinlund — Typed or printed name

Attorney for Applicant(s) — Title
(312) 474-6300 — Telephone Number

☒ Terminal disclaimer fee under 37 CFR 1.20(d) included.

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PTO/AIA/26 (04-14)
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SUPPLEMENTAL SHEET FOR TERMINAL DISCLAIMER TO OBVIATE A DOUBLE PATENTING REJECTION OVER A "PRIOR" PATENT	Docket Number (Optional) 29178/50736CON

Prior patent Nos. applicable to this terminal disclaimer (referenced on first page):

9,980,322
9,976,750

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/984,760	05/21/2018	Kyle Thomas Kestner	29178/50736CON	1068

4743 7590 06/28/2019

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6300 WILLIS TOWER
CHICAGO, IL 60606-6357

EXAMINER
PELHAM, JOSEPH MOORE

ART UNIT	PAPER NUMBER
3761	

NOTIFICATION DATE	DELIVERY MODE
06/28/2019	ELECTRONIC

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

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

mgbdocket@marshallip.com

Office Action Summary	Application No. 15/984,760	Applicant(s) Kestner et al.	
	Examiner JOSEPH M PELHAM	Art Unit 3761	AIA (FITF) Status Yes

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTHS FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☐ Responsive to communication(s) filed on _____.

☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

2a)☐ This action is **FINAL.** 2b) ☑ This action is non-final.

3)☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.

4)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims*

5) ☑ Claim(s) 36-73 is/are pending in the application.

5a) Of the above claim(s) _____ is/are withdrawn from consideration.

6) ☐ Claim(s) _____ is/are allowed.

7) ☑ Claim(s) 36-73 is/are rejected.

8) ☐ Claim(s) _____ is/are objected to.

9) ☐ Claim(s) _____ are subject to restriction and/or election requirement

* If any claims have been determined allowable, you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to **PPHfeedback@uspto.gov.**

Application Papers

10)☐ The specification is objected to by the Examiner.

11)☑ The drawing(s) filed on 21 May 2019 is/are: a)☑ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

Certified copies:

a)☐ All b)☐ Some** c)☐ None of the:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

** See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☑ Notice of References Cited (PTO-892)

2) ☑ Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08b) Paper No(s)/Mail Date _____.

3) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date _____.

4) ☐ Other: _____.

Notice of Pre-AIA or AIA Status

The present application, filed on or after March 16, 2013, is being examined under the first inventor to file provisions of the AIA.

Double Patenting

Claims 36, 37, 47-59, and 64-73 are rejected on the ground of nonstatutory double patenting as being unpatentable over claims 1-3 and 5-10 of U.S. Patent No. 9,976,750. Although the claims at issue are not identical, they are not patentably distinct from each other because instant independent claim 36 differs substantively from claim 1 of '750 only by incorporating the second food holding compartment recited in claim 2 of '750, relegating to claims 51-53 the type of heating elements recited by claim 1 of '750 to be "radiant" and "conductive," and relegating to claim 64 the specific "thermally conductive material" of the "planar surface" recited by claim 1 of '750 to be "aluminum." That is, aside from redistributing equivalent limitations, instant independent claim 36 merely broadens the scope of these limitations in claims 1 and 2 of '750. The balance of the instant claim limitations correspond straightforwardly to those of the cited '750 claims.

Claims 36-73 are provisionally rejected on the ground of nonstatutory double patenting as being unpatentable over claims 1-27 of copending Application No. 16/403,349 (reference application). Although the claims at issue are not identical, they are not patentably distinct from each other because, aside from redistributing equivalent limitations, the instant claims differ substantively from the '349 claims merely by expressly including the bottom of the second food holding compartment, an element obvious because needed to form the lower food holding compartment. The zone (or

bay) temperature display of claim 38, is conventional and therefore obvious. And the "horizontal" arrangement of "two user interfaces" on the "first bezel," as in claim 45, is conventional and therefore obvious since it corresponds to the horizontal arrangement of the first and second food holding zones they control.

This is a provisional nonstatutory double patenting rejection because the patentably indistinct claims have not in fact been patented.

Claims 36-73 are provisionally rejected on the ground of nonstatutory double patenting as being unpatentable over claims 34-67 of copending Application No. 15/985,255 (reference application). Although the claims at issue are not identical, they are not patentably distinct from each other because the instant claims differ from the '255 claims only by including recitation of "bays," the structural implication of which is just the ability to accommodate two trays in each zone, which is obviously the case for appropriately sized trays in each independently controlled ***zone***, and by relegating to instant dependent claim 36, the rear openings retained by '255 in independent claim 34, which broadens instant claim 36.

This is a provisional nonstatutory double patenting rejection because the patentably indistinct claims have not in fact been patented.

Claims 34, 44-55, and 59-67 are rejected on the ground of nonstatutory double patenting as being unpatentable over claims 1-10 of U.S. Patent No. 9,980,322. Although the claims at issue are not identical, they are not patentably distinct from each other because instant independent claim 36 differs substantively from claim 1 of '322

only by incorporating the second food holding compartment recited in claim 2 of '322, by including the lid holding shelves recited in dependent claims 5-7 of '322, and relegating to claims 51-53 the type of heating elements recited by claim 1 of '322 to be "radiant" and "conductive," and relegating to claim 60 the specific "thermally conductive material" of the "planar surface" recited by claim 1 of '322 to be "aluminum." That is, aside from redistributing equivalent limitations, instant independent claim 36 merely broadens the scope of these limitations in claims 1 and 2 of '322. The balance of the instant claim limitations correspond straightforwardly to those of the cited '322 claims.

Claims 36, 37, 39, 40, 41-43, 46-69, and 73 are provisionally rejected on the ground of nonstatutory double patenting as being unpatentable over claims 1-27 of copending Application No. 16/403,415 (reference application). Although the claims at issue are not identical, they are not patentably distinct from each other because again, aside from redistributing equivalent limitations, the instant claims differ substantively from the '415 claims merely by expressly reciting the bottom of the second food holding compartment, an obvious part because it is needed to form the lower food holding compartment. Moreover, the recitation of bays in instant independent claim 36, and subsequent dependent claims, implicates no necessary structure to distinguish the claims from the zones of independent claims 3, 11, 15, and 17 (even if they were not intended to be recited in the '415 claims). Trays of a size capable of being pairs in the zones of '415 justify identifying the halves of each zone as "bays." Reiterating, the listed instant claims are not patentably distinct from the listed '415 claims.

This is a provisional nonstatutory double patenting rejection because the

patentably indistinct claims have not in fact been patented.

Claim Rejections - 35 USC § 112

Claims 36-73 are rejected under 35 U.S.C. 112(b) or 35 U.S.C. 112 (pre-AIA), second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which the inventor or a joint inventor, or for pre-AIA the applicant regards as the invention.

The penultimate and last lines of claim 36 recite "each food holding ***bay*** has an independently controlled food holding temperature" (Exr's emphasis), which appears to be mistaken since it is evidently the "food holding ***zones***" (Exr's emphasis) which are independently controlled. Moreover, if it is the "bays" which are independently controlled, this precludes "one independently controllable heating element" in the "first food holding zone" as recited earlier in the same claim.

The Examiner queries Applicant: do claims 38, 39, 42, and 71-73 (at least) correctly recite "food holding ***bay[s]***" (Exr's emphasis) rather than "zones," implicating at least two independently controllable subzones, i.e., the "bays," in each zone?

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JOSEPH MOORE PELHAM whose telephone number is (571)272-4786. The examiner can normally be reached on M-F 8a-4p campus; 7-9p tele.

Examiner interviews are available via telephone, in-person, and video conferencing using a USPTO supplied web-based collaboration tool. To schedule an interview, applicant is encouraged to use the USPTO Automated Interview Request (AIR) at http://www.uspto.gov/interviewpractice.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ibrahime Abraham can be reached on 5712705669. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/JOSEPH M PELHAM/
Primary Examiner, Art Unit 3761
6/22/19

Notice of References Cited	Application/Control No. 15/984,760	Applicant(s)/Patent Under Reexamination Kestner et al.	
	Examiner JOSEPH M PELHAM	Art Unit 3761	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A	US-20110114618-A1	05-2011	CHUNG; TERRY TAE-IL	A47J39/006	219/201
*	B	US-20110114624-A1	05-2011	Chung; Terry Tae-IL	A47J39/006	219/385
	C					
	D					
	E					
	F					
	G					
	H					
	I					
	J					
	K					
	L					
	M					

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	CPC Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
	V	
	W	
	X	

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	15/984,760	Kestner et al.
	Examiner	Art Unit
	JOSEPH M PELHAM	3761

CPC - Searched*		
Symbol	Date	Examiner
See attached search history	06/22/2019	JP

CPC Combination Sets - Searched*		
Symbol	Date	Examiner

US Classification - Searched*			
Class	Subclass	Date	Examiner

* See search history printout included with this form or the SEARCH NOTES box below to determine the scope of the search.

Search Notes		
Search Notes	Date	Examiner
See attached search history	06/22/2019	JP
InnovationQ concept search at IP.com using US PGPub.	06/21/2019	JP
Inventor name search	06/22/2019	JP

Interference Search			
US Class/CPC Symbol	US Subclass/CPC Group	Date	Examiner

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	15/984,760	Kestner et al.
	Examiner	Art Unit
	JOSEPH M PELHAM	3761

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

CLAIMS

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIM		DATE								
Final	Original	06/22/2019								
	36	✓								
	37	✓								
	38	✓								
	39	✓								
	40	✓								
	41	✓								
	42	✓								
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	70	✓								
	71	✓								
	72	✓								
	73	✓								

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	193	(A47J36/$ A47J39/$ F24C15/$).cpc. and ((bay stage staging display service bin holding holder dispensing dispenser) near3 (food meal)) and (bottom floor surface plate panel) and ((heater heating warmer warming) near5 (individual individually independent independently)) and ((tray bay stage staging display service bin holding holder dispensing dispenser) near3 (tray pan vessel dish chafer chafing))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2019/06/22 00:38
L2	177	(A47J36/$ A47J39/$ F24C15/$).cpc. and ((tray bay stage staging service bin holding) with (food meal)) and ((bottom floor surface plate panel) same (aluminum Al)) and ((heater heating warmer warming) near5 (individual individually independent independently)) and ((tray pan vessel dish chafer chafing) same food)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2019/06/22 00:54
L3	89	1 not L2	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2019/06/22 00:54
L4	153	1 and @pd<"20160401"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2019/06/22 00:55
L5	73	4 not l2	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2019/06/22 00:56
L6	92	(A47J36/$ A47J39/$ F24C15/$).cpc. and ((bay stage staging display service bin holding holder dispensing dispenser) near3 (food meal)) and (bottom floor surface plate panel) and ((heater heating warmer warming) near5 (individual individually independent independently)) and ((tray bay stage staging display service bin holding holder dispensing dispenser) near3 (tray pan vessel dish chafer chafing)) and ((lid cover) near5 (tray pan vessel dish chafer chafing))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2019/06/22 00:58

L7	77	6 and @pd<"20160401"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2019/06/22 00:59
L8	88	(A47J36/$ A47J39/$ F24C15/$).cpc. and ((bay stage staging display service bin holding holder dispensing dispenser) near3 (food meal)) and (bottom floor surface plate panel) and ((heater heating) near5 (individual individually independent independently)) and ((tray bay stage staging display service bin holding holder dispensing dispenser) near3 (tray pan vessel dish chafer chafing)) and ((lid cover) near5 (tray pan vessel dish chafer chafing))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2019/06/22 01:04
L9	73	8 and @pd<"20160401"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2019/06/22 01:05
L10	24	(US-20140130684-$ or US-20130175253-$ or US-20110030565-$ or US-20040069155-$ or US-20010007322-$ or US-20090199725-$ or US-20080302778-$ or US-20110283895-$ or US-20110253698-$ or US-20110252813-$ or US-20110114624-$ or US-20080023462-$ or US-20020172742-$ or US-20100140251-$).did. or (US-7328654-$ or US-7105779-$ or US-7905173-$ or US-7385160-$ or US-6262394-$ or US-8096231-$ or US-8404292-$ or US-8522675-$ or US-5783803-$ or US-6412403-$).did.	US-PGPUB; USPAT	OR	ON	2019/06/22 01:11
L11	19	(US-2386919-$ | US-2900806-$ | US-2934913-$ | US-3042384-$ | US-3275393-$ | US-3301618-$ | US-3308633-$ | US-3393630-$ | US-3414709-$ | US-3696720-$ | US-3950632-$ | US-3979056-$ | US-4036995-$ | US-4077690-$ | US-4093041-$ | US-4278872-$ | US-4306616-$ | US-4355521-$ | US-4388689-$).DID.	US-PGPUB; USPAT	OR	ON	2019/06/22 01:13
L12	19	(US-4530067-$ | US-4569421-$ | US-4610238-$ | US-4633230-$ | US-4644931-$ | US-4688475-$ | US-4740888-$ | US-4742455-$ | US-4782445-$ | US-4812625-$ | US-4812963-$ | US-4864498-$ | US-4911068-$ | US-4922435-$ | US-5003472-$ | US-5069273-$ | US-5093556-$ | US-5128862-$ | US-5132914-$).DID.	US-PGPUB; USPAT	OR	ON	2019/06/22 01:14
L13	19	(US-5172328-$ | US-5188020-$ | US-5216918-$ | US-5218527-$ | US-5247807-$ | US-5253564-$ | US-5357426-$ | US-5485780-$ | US-5504589-$ | US-5510979-$ | US-5539671-$ | US-5553312-$ | US-5579952-$ | US-5590586-$ | US-5594222-$ | US-5616269-$ | US-5653906-$ | US-5724886-$ | US-5772072-$).DID.	US-PGPUB; USPAT	OR	ON	2019/06/22 01:14

L14	19	(US-5783803-$ | US-5812393-$ | US-5900173-$ | US-5921096-$ | US-5931083-$ | US-5939974-$ | US-5944324-$ | US-5947012-$ | US-6000622-$ | US-6006996-$ | US-6011243-$ | US-6026372-$ | US-6031208-$ | US-6052667-$ | US-6088681-$ | US-6114659-$ | US-6116154-$ | US-6119587-$ | US-6153244-$).DID.	US-PGPUB; USPAT	OR	ON	2019/06/22 01:15
L15	19	(US-6158885-$ | US-6175099-$ | US-6200944-$ | US-6209447-$ | US-6257010-$ | US-6261621-$ | US-6262394-$ | US-6412403-$ | US-6434961-$ | US-6502411-$ | US-6541739-$ | US-6637322-$ | US-6658994-$ | US-6825447-$ | US-6834276-$ | US-6878391-$ | US-6884451-$ | US-7028498-$ | US-7105779-$).DID.	US-PGPUB; USPAT	OR	ON	2019/06/22 01:16
L16	19	(US-7132926-$ | US-7227102-$ | US-7235762-$ | US-7238654-$ | US-7258064-$ | US-7279659-$ | US-7328654-$ | US-7376485-$ | US-7381927-$ | US-7385160-$ | US-7446282-$ | US-7628107-$ | US-7762636-$ | US-7858906-$ | US-7905173-$ | US-7971523-$ | US-8091472-$ | US-8096231-$ | US-8134101-$).DID.	US-PGPUB; USPAT	OR	ON	2019/06/22 01:17
L17	19	(US-8247745-$ | US-8404292-$ | US-8522675-$ | US-8558142-$ | US-8667807-$ | US-8997636-$ | US-9003820-$ | US-9068768-$ | US-9140484-$ | US-9140485-$ | US-D063818-$ | US-D243362-$ | US-D341054-$ | US-D364530-$ | US-D369269-$ | US-D427008-$ | US-D427479-$ | US-D434265-$ | US-D480260-$).DID.	US-PGPUB; USPAT	OR	ON	2019/06/22 01:18
L18	29	(US-0007322-$ | US-0016242-$ | US-0019534-$ | US-0020915-$ | US-0053963-$ | US-0060320-$ | US-0118706-$ | US-0150662-$ | US-0185527-$ | US-0211696-$ | US-20010007322-$ | US-20010053963-$ | US-20030118706-$ | US-20040016242-$ | US-20040019534-$ | US-20040020915-$ | US-20040060320-$ | US-20040000162-$ | US-20050211696-$ | US-20050236947-$ | US-20060150662-$ | US-20060185527-$ | US-20070017245-$ | US-20070144202-$ | US-D570715-$ | US-D704982-$ | US-D716095-$ | US-RE40151-$ | US-RE40290-$).DID.	US-PGPUB; USPAT	OR	ON	2019/06/22 01:19
L19	34	(US-0023462-$ | US-0030565-$ | US-0045185-$ | US-0079699-$ | US-0126580-$ | US-0199723-$ | US-0199725-$ | US-0252813-$ | US-0253698-$ | US-0253703-$ | US-0261426-$ | US-0266244-$ | US-0278278-$ | US-0283895-$ | US-0302778-$ | US-20070251397-$ | US-20080023462-$ | US-20080302778-$ | US-20080213449-$ | US-20090045185-$ | US-20090126580-$ | US-20090199723-$ | US-20090199725-$ | US-20090266244-$ | US-20090309027-$ | US-20100205992-$ | US-20110030565-$ | US-20110252813-$ | US-20110253698-$ | US-20110253703-$ | US-20110278278-$ | US-20110283895-$ | US-20120079699-$ | US-20120261426-$).DID.	US-PGPUB; USPAT	OR	ON	2019/06/22 01:19

L20	28	(US-0010937-$ | US-0057031-$ | US-0083309-$ | US-0130684-$ | US-0150461-$ | US-0165644-$ | US-0174101-$ | US-0175253-$ | US-0197177-$ | US-0201749-$ | US-0201803-$ | US-0246966-$ | US-0263269-$ | US-0285942-$ | US-20120285942-$ | US-20130175253-$ | US-20140010937-$ | US-20140057031-$ | US-20140083309-$ | US-20140130684-$ | US-20140150461-$ | US-20140165644-$ | US-20140174101-$ | US-20140197177-$ | US-20140246966-$ | US-20140263269-$ | US-20150201749-$ | US-20150201803-$).DID.	US-PGPUB; USPAT	OR	ON	2019/06/22 01:20
L21	228	10 11 12 13 14 15 16 17 18 19 20	US-PGPUB; USPAT	OR	ON	2019/06/22 01:22
L22	57	9 not 21	US-PGPUB; USPAT	OR	ON	2019/06/22 01:29
L23	0	10 not 21	US-PGPUB; USPAT	OR	ON	2019/06/22 01:31
S1	20	shei-$.in. and 219/398-428.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2016/09/28 16:02
S2	20	219/398,394,428.ccls. and zone and (tray bay)	US-PGPUB; USPAT; USOCR	OR	ON	2016/09/29 15:54
S3	61	("20020094361" | "20020100756" | "20020102337" | "20020172742" | "20030080657" | "20030118706" | "20030188929" | "20040033297" | "20040208961" | "20050255208" | "20060045943" | "2122532" | "3136356" | "3331425" | "3542445" | "3942426" | "4095642" | "4109484" | "4165778" | "4180125" | "4186790" | "4254824" | "4296792" | "4312396" | "4313485" | "4384606" | "4388961" | "4392360" | "4607678" | "4784054" | "4801180" | "4822981" | "5127460" | "5172328" | "5724886" | "5783803" | "5852967" | "5900173" | "5931083" | "5947012" | "6119587" | "6175099" | "6209447" | "6262394" | "6358548" | "6412403" | "6541739" | "6607766" | "6637322" | "6658992" | "6658994" | "6783199" | "6878391" | "6884451").PN. OR ("7905173").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2016/09/29 16:01
S4	35	("20010007322" | "20030118706" | "20040020915" | "20040056761" | "20040069155" | "20050216349" | "4575164" | "4576425" | "4832422" | "5058764" | "5724886" | "5783803" | "5900173" | "5947012" | "6116154" | "6119587" | "6175099" | "6262394" | "6412403" | "6637322" | "6878391" | "6884451" | "7105779" | "D254308" | "D364530").PN. OR ("7385160").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2016/09/29 16:02

S5	8	(US-20140130684-$ or US-20130175253-$ or US-20110030565-$).did. or (US-8895902-$ or US-7328654-$ or US-7105779-$ or US-7905173-$ or US-7385160-$).did.	US-PGPUB; USPAT	OR	ON	2016/09/29 20:54
S6	1	("7385160").pn. and zone and (tray bay)	US-PGPUB; USPAT; USOCR	OR	ON	2016/09/30 13:41
S7	1	("7905173").pn. and zone and ("33"$1 "31"$1)	US-PGPUB; USPAT; USOCR	OR	ON	2016/09/30 14:53
S8	1	("7905173").pn. and zone and (back rear behind)	US-PGPUB; USPAT; USOCR	OR	ON	2016/09/30 15:03
S9	1	("7905173").pn. and zone and (upper lower)	US-PGPUB; USPAT; USOCR	OR	ON	2016/09/30 15:39
S10	0	("7905173").pn. and zone and (lid)	US-PGPUB; USPAT; USOCR	OR	ON	2016/09/30 15:44
S11	1	("7905173").pn. and zone and (cover)	US-PGPUB; USPAT; USOCR	OR	ON	2016/09/30 15:44
S12	0	("7905173").pn. and (wire coil)	US-PGPUB; USPAT; USOCR	OR	ON	2016/09/30 15:46
S13	2	("5842353" | "6403928").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2016/09/30 16:07
S14	1	("7385160").pn. and (heat$3 near7 (upper top lower bottom))	US-PGPUB; USPAT; USOCR	OR	ON	2016/09/30 21:25
S15	1	("7385160" "7905173").pn. and (heat$3 with (coil wire cable resistor resistive))	US-PGPUB; USPAT; USOCR	OR	ON	2016/09/30 21:56
S16	16	219/398,394,428.ccls. and ((tray bay) with (latch stop stay block))	US-PGPUB; USPAT; USOCR	OR	ON	2016/09/30 22:21
S17	135	(312/236 219/214,385,386,398,394,428).ccls. and ((tray bay) with (latch stop stay block apice lock))	US-PGPUB; USPAT; USOCR	OR	ON	2016/09/30 22:27
S18	119	S17 not S16	US-PGPUB; USPAT; USOCR	OR	ON	2016/09/30 22:27
S19	15	(US-20140130684-$ or US-20130175253-$ or US-20110030565-$ or US-20010007322-	US-PGPUB;	OR	ON	2016/09/30 22:59

		$ or US-20080302778-$).did. or (US-8895902-$ or US-7328654-$ or US-7105779-$ or US-7905173-$ or US-7385160-$ or US-6262394-$ or US-8096231-$ or US-8404292-$ or US-8522675-$ or US-5783803-$).did.	USPAT			
S20	1	S19 and lock$3	US-PGPUB; USPAT; USOCR	OR	ON	2016/09/30 23:00
S21	2	("8522675" "7905173" "7385160").pn. and ((heat$3 control$4) with (independent independently))	US-PGPUB; USPAT; USOCR	OR	ON	2016/10/01 15:10
S22	2	("8522675" "7905173" "7385160").pn. and ((heat$3 control$4) and (independent independently))	US-PGPUB; USPAT; USOCR	OR	ON	2016/10/01 15:14
S23	2	("8522675" "7905173" "7385160").pn. and ((heat heater heating control$4) and (independent independently))	US-PGPUB; USPAT; USOCR	OR	ON	2016/10/01 15:16
S24	1	("8522675" "7905173" "7385160").pn. and ((tray) with (cover lid))	US-PGPUB; USPAT; USOCR	OR	ON	2016/10/01 15:29
S25	1	"20010007322".pn. and (heater heating resistive resistor)	US-PGPUB; USPAT; USOCR	OR	ON	2016/10/01 15:40
S26	1	"7905173".pn. and (zone)	US-PGPUB; USPAT; USOCR	OR	ON	2016/10/01 17:08
S27	17	219/$.ccls. and ((roller adj coaster) (amusement adj park))	US-PGPUB; USPAT; USOCR	OR	ON	2016/10/01 18:08
S28	1	"7905173".pn. and curb	US-PGPUB; USPAT; USOCR	OR	ON	2017/04/14 21:05
S29	1	"8522675".pn. and power	US-PGPUB; USPAT; USOCR	OR	ON	2017/04/14 21:48
S30	1	"8522675".pn. and open	US-PGPUB; USPAT; USOCR	OR	ON	2017/04/14 21:56
S31	1	"8522675".pn. and wire	US-PGPUB; USPAT; USOCR	OR	ON	2017/04/14 22:06
S32	0	"7385160".pn. and ((upper adj heater) with (setting power))	US-PGPUB; USPAT; USOCR	OR	ON	2017/04/14 22:22
S33	0	"7385160".pn. and ((upper adj heater)	US-	OR	ON	2017/04/14

		same (setting power))	PGPUB; USPAT; USOCR			22:22
S34	1	"7385160".pn. and (upper adj heater)	US-PGPUB; USPAT; USOCR	OR	ON	2017/04/14 22:22
S35	28	(US-10079088-$ | US-11342061-$ | US-2386919-$ | US-2900806-$ | US-2934913-$ | US-3042384-$ | US-3275393-$ | US-3301618-$ | US-3308633-$ | US-3414709-$ | US-3696720-$ | US-3950632-$ | US-3979056-$ | US-4036995-$ | US-4077690-$ | US-4278872-$ | US-4306616-$ | US-4355521-$ | US-4388689-$ | US-4530067-$ | US-4569421-$ | US-8000414-$).DID.	US-PGPUB; USPAT; USOCR	OR	ON	2017/04/14 22:31
S36	19	(US-4610238-$ | US-4633230-$ | US-4644931-$ | US-4688475-$ | US-4740888-$ | US-4742455-$ | US-4782445-$ | US-4812625-$ | US-4812963-$ | US-4864498-$ | US-4911068-$ | US-4922435-$ | US-5003472-$ | US-5069273-$ | US-5093556-$ | US-5128862-$ | US-5132914-$ | US-5172328-$ | US-5188020-$).DID.	US-PGPUB; USPAT; USOCR	OR	ON	2017/04/14 22:33
S37	19	(US-5921096-$ | US-5931083-$ | US-5939974-$ | US-5944324-$ | US-5947012-$ | US-6000622-$ | US-6006996-$ | US-6011243-$ | US-6026372-$ | US-6031208-$ | US-6052667-$ | US-6088681-$ | US-6114659-$ | US-6116154-$ | US-6119587-$ | US-6153244-$ | US-6158885-$ | US-6175099-$ | US-6200944-$).DID.	US-PGPUB; USPAT; USOCR	OR	ON	2017/04/14 22:33
S38	19	(US-6209447-$ | US-6257010-$ | US-6261621-$ | US-6262394-$ | US-6412403-$ | US-6434961-$ | US-6502411-$ | US-6541739-$ | US-6637322-$ | US-6658994-$ | US-6825447-$ | US-6834276-$ | US-6878391-$ | US-6884451-$ | US-7028498-$ | US-7132926-$ | US-7227102-$ | US-7235762-$ | US-7238654-$).DID.	US-PGPUB; USPAT; USOCR	OR	ON	2017/04/14 22:34
S39	20	(US-7258064-$ | US-7279659-$ | US-7376485-$ | US-7381927-$ | US-7446282-$ | US-7628107-$ | US-7762636-$ | US-7858906-$ | US-8091472-$ | US-8247745-$ | US-9003820-$ | US-D063818-$ | US-D243362-$ | US-D341054-$ | US-D364530-$ | US-D369269-$ | US-D427008-$ | US-D427479-$ | US-D434265-$).DID.	US-PGPUB; USPAT; USOCR	OR	ON	2017/04/14 22:35
S40	51	(US-0000162-$ | US-0016242-$ | US-0017245-$ | US-0019534-$ | US-0020915-$ | US-0023462-$ | US-0045185-$ | US-0053963-$ | US-0060320-$ | US-0118706-$ | US-0144202-$ | US-0150662-$ | US-0211696-$ | US-0213449-$ | US-0236947-$ | US-0251397-$ | US-D570715-$ | US-RE40151-$ | US-RE40290-$ | US-20010053963-$ | US-20030118706-$ | US-20040000162-$ | US-20040016242-$ | US-20040019534-$ | US-20040020915-$ | US-20040060320-$ | US-20050211696-$ | US-20050236947-$ | US-20060150662-$ | US-20070017245-$ | US-	US-PGPUB; USPAT; USOCR	OR	ON	2017/04/14 22:36

		20070251397-$ | US-20080023462-$ | US-20080213449-$ | US-20090045185-$).DID.				
S41	36	(US-0079699-$ | US-0150461-$ | US-0165644-$ | US-0174101-$ | US-0197177-$ | US-0205992-$ | US-0253698-$ | US-0253703-$ | US-0263269-$ | US-0266244-$ | US-0285942-$ | US-0309027-$ | US-20090266244-$ | US-20090309027-$ | US-20100205992-$ | US-20110253698-$ | US-20110253703-$ | US-20120079699-$ | US-20120285942-$ | US-20140150461-$ | US-20140165644-$ | US-20140174101-$ | US-20140197177-$ | US-20140263269-$).DID.	US-PGPUB; USPAT; USOCR	OR	ON	2017/04/14 22:37
S42	155	S35 S36 S37 S38 S39 S40 S41	US-PGPUB; USPAT	OR	ON	2017/04/14 22:39
S43	52	(312/236 219/214,385,386,398,394,428).ccls. and ((tray bay stage staging service bin holding) with (food meal)) and ((tray pan vessel dish chafer chafing) same (aluminum Al)) and ((heater heating warmer warming) near5 (individual individually independent independently))	US-PGPUB; USPAT; USOCR	OR	ON	2017/12/07 16:06
S44	124	(A47J36/$ A47J39/$ F24C15/$).cpc. and ((tray bay stage staging service bin holding) with (food meal)) and ((tray pan vessel dish chafer chafing) same (aluminum Al)) and ((heater heating warmer warming) near5 (individual individually independent independently))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2017/12/07 17:19
S45	80	S44 not S43	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2017/12/07 17:19
S46	175	(A47J36/$ A47J39/$ F24C15/$).cpc. and ((tray bay stage staging service bin holding) with (food meal)) and ((bottom floor surface plate panel) same (aluminum Al)) and ((heater heating warmer warming) near5 (individual individually independent independently))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2017/12/07 17:24
S47	69	S46 not (S43 S44)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2017/12/07 17:24
S48	156	(A47J36/$ A47J39/$ F24C15/$).cpc. and ((tray bay stage staging service bin holding) with (food meal)) and ((bottom floor surface plate panel) same (aluminum Al)) and ((heater heating warmer warming) near5 (individual individually independent independently)) and ((tray pan vessel dish chafer chafing) same food)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2017/12/07 17:26
S49	52	S48 not (S43 S44)	US-	OR	ON	2017/12/07

			PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT			17:26
S52	7	(US-20110252813-$ or US-20110283895-$ or US-20110114624-$ or US-20080023462-$ or US-20040069155-$ or US-20020172742-$).did. or (US-6412403-$).did.	US-PGPUB; USPAT; USOCR	OR	ON	2019/06/20 14:57
S53	0	("9976750").pn. and bezel.clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2019/06/20 15:25
S54	1	("9976750").pn. and latch.clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2019/06/20 15:27
S55	0	("9976750").pn. and display.clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2019/06/20 15:30
S56	1	("9976750").pn. and control$4.clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2019/06/20 15:35
S57	0	("20110114624").pn. and (latch bezal)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2019/06/20 15:36
S58	1	("20110114624").pn. and (latch bezel)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2019/06/20 15:37
S59	1	("9976750").pn. and lid.clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2019/06/20 15:42
S60	1	("9976750").pn. and (more adj heat).clm.	US-	OR	ON	2019/06/20

			PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT			16:17
S61	1	("20180266696").pn. and (more adj heat).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2019/06/20 16:18
S62	1	("20180266696").pn. and (bezel with forward)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2019/06/21 11:31
S63	1	("9976750").pn. and tray.clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2019/06/21 21:01
S64	0	("9976750").pn. and (fourth adj3 zone).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2019/06/21 21:16
S65	1	("9976750").pn. and (fourth).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2019/06/21 21:16
S66	0	("20180270906").pn. and (bay).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2019/06/21 21:39
S67	1	("9976750").pn. and (bay).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT	OR	ON	2019/06/21 23:47

EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S50	0	(((tray bay stage staging service bin holding)	US-	OR	ON	2017/12/07

		with (food meal)) and ((tray pan vessel dish chafer chafing) same (aluminum Al)) and ((heater heating warmer warming) near5 (individual individually independent independently))).clm.	PGPUB			17:22
S51	0	(((tray bay stage staging service bin holding) with (food meal)) and ((bottom floor surface plate panel) same (aluminum Al)) and ((heater heating warmer warming) near5 (individual individually independent independently)) and ((tray pan vessel dish chafer chafing) same food)).clm.	US-PGPUB	OR	ON	2017/12/07 17:30

6/ 22/ 2019 1:42:47 AM
C:\ Users\ jpelham\ Documents\ EAST\ Workspaces\ 15.984760.wsp

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 1 of 12

Complete if Known	
Application Number	Not Yet Assigned
Filing Date	Concurrently Herewith
First Named Inventor	Kyle Thomas Kestner
Art Unit	Not Yet Assigned
Examiner Name	Not Yet Assigned
Attorney Docket Number	29178/50736CON

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Examiner Initials*	Cite No.[1]	Document Number Number-Kind Code[2] *(if known)*	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		US-2,386,919	10-16-1945	Tobey	
		US-2,900,806	08-25-1959	Wurtz et al.	
		US-2,934,913	05-03-1960	Haines et al.	
		US-3,042,384	07-03-1962	Bauman	
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		US-4,388,689	06-14-1983	Hayman et al.	

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		JP-10079088	03-24-1998	Toshiba Eng. Co. Ltd.		
		JP-11342061	12-14-1999	Shinwa Denshi Device Hanbai KK and NT Corporation:KK		
		JP-8000414	01-09-1996	Yamatake Honeywell Co. Ltd.		
		WO-01/31533-A1	05-03-2001	Salerno, Mark		
		WO-2005/034633-A1	04-21-2005	Duke Mfg Co		

Examiner Signature	/JOSEPH M PELHAM/	Date Considered	06/22/2019

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Sheet 2 of 12

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Examiner Name	Not Yet Assigned
Attorney Docket Number	29178/50736CON

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		US-4,610,238	09-09-1986	Veth	
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		US-4,742,455	05-03-1988	Schreyer	
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		US-5,128,862	07-07-1992	Mueller	
		US-5,132,914	07-21-1992	Cahlander et al.	

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		US-5,653,906	08-05-1997	Fowler et al.	
		US-5,724,886	03-10-1998	Ewald et al.	
		US-5,772,072	06-30-1998	Prescott et al.	

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				First Named Inventor	Kyle Thomas Kestner
				Art Unit	Not Yet Assigned
(Use as many sheets as necessary)				Examiner Name	Not Yet Assigned
Sheet	4	of	12	Attorney Docket Number	29178/50736CON

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				Art Unit	Not Yet Assigned
(Use as many sheets as necessary)				Examiner Name	Not Yet Assigned
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Sheet 6 of 12

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		US-8,247,745	08-21-2012	Chung et al.	
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		US-D480260	10-07-2003	Domi et al.	

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Examiner Signature	/JOSEPH M PELHAM/	Date Considered	06/22/2019

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet	8	of	12

Complete if Known	
Application Number	Not Yet Assigned
Filing Date	Concurrently Herewith
First Named Inventor	Kyle Thomas Kestner
Art Unit	Not Yet Assigned
Examiner Name	Not Yet Assigned
Attorney Docket Number	29178/50736CON

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Document Number Number-Kind Code[2] *(if known)*	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		US-D570715	06-10-2008	Di Federico	
		US-D704982	05-20-2014	Gates	
		US-D716095	10-28-2014	Veltrop et al.	
		US-RE40151	03-18-2008	Shei et al.	
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Sheet 9 of 12

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Attorney Docket Number	29178/50736CON

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		US-20070251397	11-01-2007	Dorsten et al.	
		US-2008/0023462-A1	01-31-2008	Shei et al.	
		US-20080213449	09-04-2008	Wisner et al.	
		US-2008/0302778	12-11-2008	Veltrop et al.	
		US-2009/0045185	02-19-2009	Schroeder et al.	
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		US-2011/0278278-A1	11-17-2011	Emerich et al.	
		US-2011/0283895-A1	11-24-2011	Veltrop	
		US-2012/0079699	04-05-2012	Veltrop et al.	
		US-2012/0261426-A1	10-18-2012	Tomczyk et al.	

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Attorney Docket Number	29178/50736CON

U. S. PATENT DOCUMENTS

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		US-2012/0285942	11-15-2012	Godecker et al.	
		US-2013/0175253-A1	07-11-2013	Shei et al.	
		US-2014/0010937-A1	01-09-2014	Stanger	
		US-2014/0057031-A1	02-27-2014	Ewald et al.	
		US-2014/0083309-A1	03-27-2014	Reese et al.	
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		US-2014/0246966-A1	09-04-2014	Nevarez	
		US-2014/0263269-A1	09-18-2014	Veltrop et al.	
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Sheet	11	of	12	Attorney Docket Number	29178/50736CON

Complete if Known	
Application Number	Not Yet Assigned
Filing Date	Concurrently Herewith
First Named Inventor	Kyle Thomas Kestner
Art Unit	Not Yet Assigned
Examiner Name	Not Yet Assigned

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[2]
		"Modular Holding Cabinets", Product Catalog, Carter-Hoffmann, Mundelein, Illinois (January 2014).	
		Betzold et al., U.S. Patent Application No. 14/278,549, "Modular Food Holding Cabinet Having Individually Configurable Food Holding Units", filed May 15, 2014.	
		Final Office Action issued for US Application No. 12/782,843 on 12/31/2012 by Examiner Daniel *J.* Rohrhoff, USPTO.	
		Final Office Action issued for US Application No. 13/567,821 on 06/06/2013 by Examiner Daniel J. Rohrhoff, USPTO.	
		Frymaster HCP Installation and Operation Manual, December 2006, pages 1-1 to 10-4, title page and table of publisher, Enodis, Frymaster LLC, Shreveport, LA.	
		Non-Final Office Action issued for US Application No. 12/782,843 on 06/19/2013 by Examiner Daniel J. Rohrhoff, USPTO.	
		Non-Final Office Action issued for US Application No. 12/782,843 on 08/21/2012 by Examiner Daniel J. Rohrhoff, USPTO.	
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		Prince Castle LLC, Holding Bins (www.princecastle.com <http://www.princecastle.com>).	
		Prince Castle LLC, Holding Panels (www.princecastle.com <http://www.princecastle.com>).	

Examiner Signature	/JOSEPH M PELHAM/	Date Considered	06/22/2019

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		Reider, "How to Say What Stuff Looks Like, Ontario, Canada: Marcus Books, p.62 (1995).	
		Thermodyne Food Products, Inc., Counter Top Holding Oven Model 300 NDNL specification.	
		Veltrop et al., U.S. Design Patent Application No. 29/450,074, "Food Warmer", filed March 15, 2013.	
		Veltrop et al., U.S. Design Patent Application No. 29/494,683, "Food Warmer", filed June 23, 2014.	

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Electronic Patent Application Fee Transmittal

Application Number:	15984760
Filing Date:	21-May-2018
Title of Invention:	MULTI-ZONE FOOD HOLDING BIN
First Named Inventor/Applicant Name:	Kyle Thomas Kestner
Filer:	Andrew Michael Lawrence/Grace DiCosola
Attorney Docket Number:	29178/50736CON

Filed as Large Entity

Filing Fees for Utility under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
CLAIMS IN EXCESS OF 20	1202	18	100	1800
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Extension-of-Time:				
Miscellaneous:				
			Total in USD ($)	**1800**

Electronic Acknowledgement Receipt

EFS ID:	35918635
Application Number:	15984760
International Application Number:	
Confirmation Number:	1068
Title of Invention:	MULTI-ZONE FOOD HOLDING BIN
First Named Inventor/Applicant Name:	Kyle Thomas Kestner
Customer Number:	4743
Filer:	Andrew Michael Lawrence/Grace DiCosola
Filer Authorized By:	Andrew Michael Lawrence
Attorney Docket Number:	29178/50736CON
Receipt Date:	03-MAY-2019
Filing Date:	21-MAY-2018
Time Stamp:	20:33:09
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	$1800
RAM confirmation Number	050619INTEFSW20342300
Deposit Account	132855
Authorized User	Grace DiCosola

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

37 CFR 1.16 (National application filing, search, and examination fees)

37 CFR 1.17 (Patent application and reexamination processing fees)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Preliminary Amendment	Second_Preliminary_Amendment_29178_50736CON.PDF	41311 fd2ae5399276341afffb31c7d0c63d2dfec53b4d	no	9
Warnings:					
Information:					
2	Fee Worksheet (SB06)	fee-info.pdf	30470 cd33a656efed051e0808f3993b63e08393c16f22	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	71781		

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New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

Attorney Docket No. 29178/50736CON
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:
Kyle Thomas Kestner et al.

Application No.: 15/984,760 Confirmation 1068

Filed: May 21, 2018 Art Unit: 3761

For: MULTI-ZONE FOOD HOLDING BIN Examiner: Joseph M. Pelham

SECOND PRELIMINARY AMENDMENT UNDER 37 C.F.R. § 1.115

MS Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

INTRODUCTORY COMMENTS

Prior to examination on the merits, please amend the above-identified U.S. patent application as follows:

Amendments to the Claims are reflected in the listing of claims which begins on page 2 of this paper.

Remarks begin on page 9 of this paper.

AMENDMENTS TO THE CLAIMS

1-16. (Canceled).

17.-35. (Canceled)

36. (New) A multi-zone food holding bin comprising:

a chassis having a top panel, a first side panel, a second side panel, a bottom panel, a front face, and an opposing rear face;

a first food holding compartment within the chassis, the first food holding compartment being defined by the first side panel, the second side panel, the top panel and a shelf, the top panel including at least one downwardly depending lid holding shelf, the first food holding compartment being substantially unobstructed between the first side panel and the second side panel and below the downwardly depending lid holding shelf;

a second food holding compartment disposed below the first food holding compartment within the chassis, the second food holding compartment being defined by the first side panel, the second side panel, the bottom panel and the shelf, the shelf including at least one downwardly depending lid holding shelf, the second food holding compartment being substantially unobstructed between the first side panel and the second side panel and below the downwardly depending lid holding shelf;

wherein the shelf is located between the first and second food holding compartments and comprises a first side and a second side, the first side facing into the first food holding compartment, the second side facing into the second food holding compartment, the first side defining a first substantially planar surface comprising a thermally conductive material forming a top surface of the shelf and forming a bottom surface of the first food holding compartment, the first substantially planar surface adapted to receive a tray for food items;

and wherein the bottom panel includes a second substantially planar surface comprising a thermally conductive material forming a bottom surface of the second food holding compartment, the second substantially planar surface adapted to receive a tray for food items;

a first opening in the front face of the chassis defined by the first substantially planar surface, the first side panel, the second side panel and the top panel, the first opening

configured to allow the tray for food items to be passed through the first opening and onto the first substantially planar surface;

a second opening in the front face of the chassis defined by the second substantially planar surface, the first side panel, the second side panel and the shelf, the second opening configured to allow the tray for food items to be passed through the second opening and onto the second substantially planar surface;

a first food holding zone formed in the first food holding compartment, the first food holding zone having at least one independently controllable heating element disposed at a top portion of the first food holding compartment, and at least one independently controllable heating element disposed at a bottom portion of the first food holding compartment, the first food holding zone having a controllable first food holding temperature, the first food holding zone including a first food holding bay and a second food holding bay, each of the first and second food holding bays being configured to receive a food holding tray;

a second food holding zone formed in the first food holding compartment, the second food holding zone having at least one independently controllable heating element disposed at the top portion of the first food holding compartment and at least one independently controllable heating element disposed at the bottom portion of the first food holding compartment, the second food holding zone having a controllable second food holding temperature, the second food holding zone including a third food holding bay and a fourth food holding bay, each of the third and fourth food holding bays being configured to receive a food holding tray;

wherein the first food holding zone and the second food holding zone are adjacent one another across the first substantially planar surface;

a third food holding zone formed in the second food holding compartment, the third food holding zone having at least one independently controllable heating element disposed at a top portion of the second food holding compartment, and at least one independently controllable heating element disposed at a bottom portion of the second food holding compartment, the third food holding zone having a controllable third food holding temperature, the third food holding zone including a fifth food holding bay and a sixth food holding bay, each of the fifth and sixth food holding bays being configured to receive a food holding tray;

a fourth food holding zone formed in the second food holding compartment, the fourth food holding zone having at least one independently controllable heating element

disposed at the top portion of the second food holding compartment and at least one independently controllable heating element disposed at the bottom portion of the second food holding compartment, the fourth food holding zone having a controllable fourth food holding temperature, the fourth food holding zone including a seventh food holding bay and a eighth food holding bay, each of the seventh and eighth food holding bays being configured to receive a food holding tray;

wherein the third food holding zone and the fourth food holding zone are adjacent one another across the second substantially planar surface;

at least one user interface for controlling the food holding temperature of each food holding bay; and

a controller operatively coupled to the user interface and each heating element, the controller configured to independently operate each heating element such that each food holding bay has an independently controlled food holding temperature.

37. (New) The food holding bin of claim 36, further comprising:

a third opening in the rear face of the chassis defined by the first substantially planar surface, the first side panel, the second side panel and the top panel, the third opening configured to allow the tray for food items to be passed through the third opening from the first substantially planar surface; and

a fourth opening in the rear face of the chassis defined by the second substantially planar surface, the first side panel, the second side panel and the shelf, the fourth opening configured to allow the tray for food items to be passed through the fourth opening from the second substantially planar surface.

38. (New) The food holding bin of claim 36 wherein each interface is a graphical interface that displays the food holding temperature of each food holding bay.

39. (New) The food holding bin of claim 36, further comprising a first bezel attached to the chassis, the first bezel providing at least one user interface comprising dedicated controls and/or dedicated displays for each of the first, second, third, and fourth food holding bays.

40. (New) The food holding bin of claim 38, wherein the first bezel is set forward from the shelf and defining a space between the first bezel and the front face.

41. (New) The food holding bin of claim 40, further comprising a latch moveable from a locked position to an unlocked position within the space between the first bezel and the front face.

42. (New) The food holding bin of claim 39, wherein the first bezel provides at least one graphical interface comprising at least one dedicated display and the dedicated display displays a temperature setting for a corresponding food holding bay.

43. (New) The food holding bin of claim 39, wherein the dedicated display displays additional information about a food item stored in the corresponding food holding bay.

44. (New) The food holding bin of claim 42, wherein the dedicated display displays additional information about a food item stored in the corresponding food holding bay.

45. (New) The food holding bin of claim 39, wherein the first bezel provides two user interfaces arranged horizontally beneath the first food holding zone and the second food holding zone, respectively.

46. (New) The food holding bin of claim 37, further comprising at least two bezels attached to the chassis, a first bezel providing at least one user interface comprising dedicated controls and/or dedicated displays for each of the first, second, third, fourth, fifth, sixth, seventh, and eighth food holding bays, the first bezel located proximate the front face of the chassis; and a second bezel attached to the chassis, the second bezel providing at least one user interface comprising dedicated controls and/or dedicated displays for each of the first, second, third, fourth, fifth, sixth, seventh, and eighth food holding bays, the second bezel located proximate the opposing rear face of the chassis.

47. (New) The food holding bin of claim 36, further comprising a latch disposed adjacent the first opening.

48. (New) The food holding bin of claim 47, wherein the latch is located between the first food holding bay and the second food holding bay.

49. (New) The food holding bin of claim 47, wherein the latch is rotatable or translatable from a first position to a second position.

50. (New) The food holding bin of claim 36, further comprising at least one food holding tray resting on at least one substantially planar surface within one food holding bay.

51. (New) The food holding bin of claim 50, wherein the independently controllable heating elements disposed at the bottom portion of the first and second food holding compartments provide heat energy to at least one food holding tray through conduction.

52. (New) The food holding bin of claim 50, wherein the independently controllable heating elements disposed at the top portion of the first and second food holding compartments provide radiant heat to at least one food holding tray.

53. (New) The food holding bin of claim 50, wherein the independently controllable heating elements disposed at the top portion of the first and second food holding compartments provide radiant heat energy to at least one food holding tray and the independently controllable heating elements disposed at the bottom portion of the first and second food holding compartments provide heat energy through conduction to at least one holding tray.

54. (New) The food holding bin of claim 36, wherein the independently controllable heating elements comprise a resistive wire.

55. (New) The food holding bin of claim 36, wherein at least one of the substantially planar surfaces is a continuous surface.

56. (New) The food holding bin of claim 55, wherein at least one of the substantially planar surfaces is substantially free of any dividing walls or other structure between the first, second, third, and fourth food holding bays.

57. (New) The food holding bin of claim 55, wherein at least one of the substantially planar surfaces is substantially free of any dividing walls or other structure between the fifth, sixth, seventh and eighth food holding bays.

58. (New) The food holding bin of claim 50, wherein each food holding bay further comprises a lid holding shelf elevated above the substantially planar bottom surface in the first food holding compartment and the second food holding compartment, each lid holding shelf being configured to receive and store a lid for the food holding tray.

59. (New) The food holding bin of claim 58, wherein a latch is disposed adjacent the first opening and is moveable between a locked position in which the latch prevents a lid from being removed from the lid holding shelf, and an unlocked position in which the latch allows removal of a lid from the lid holding shelf.

60. (New) The food holding bin of claim 59, wherein the latch is rotatable and is biased into the locked position by gravity.

61. (New) The food holding bin of claim 58, wherein the lid holding shelf comprises sheet metal.

62 (New) The food holding bin of claim 58, wherein the lid holding shelf comprises a wire form.

63. (New) The food holding bin of claim 36, wherein each independently controllable heating element disposed at the top portion of the first and second food holding compartments is adapted to output more heat energy than the independently controllable heating elements disposed at the bottom portion of the first and second food holding compartments.

64. (New) The food holding bin of claim 36, wherein at least one substantially planar surface comprises aluminum.

65. (New) The food holding bin of claim 36, wherein each of the food holding bays are each heated to different temperatures.

66. (New) The food holding bin of claim 36, wherein two or more of the food holding bays are each heated to different temperatures.

67. (New) The food holding bin of claim 36, wherein two or more of the food holding bays are each heated to the same temperature.

68. (New) The food holding bin of claim 36, wherein the shelf comprises an upper thermally conductive plate disposed in the shelf and in thermal communication with the first side, a lower thermally conductive plate disposed in the shelf and in thermal communication with the second side, a first set of independently controllable heating elements in thermal communication with the upper thermally conductive plate, and a second set of independently controllable heating elements in thermal communication with the lower thermally conductive plate;

wherein the first set of independently controllable heating elements are capable of providing different amounts of heat energy into the first, second, third and fourth food holding bays of the first food holding compartment; and

wherein the second set of independently controllable heating elements are capable of providing different amounts of heat energy into the fifth, sixth, seventh and eighth food holding bays of the second food holding compartment.

69. (New) The food holding bin of claim 68, wherein an insulating material is provided between the first and second sets of independently controllable heating elements.

70. (New) The food holding bin of claim 68, wherein each of the first and second sets of independently controllable heating elements comprise two heating elements.

71. (New) The holding bin of claim 36, wherein the at least one user interface is configured to set the food holding temperature of each food holding bay, and the first food holding bay is maintained at a first set food holding temperature, the second food holding bay is maintained at a second set food holding temperature, the third food holding bay is maintained at a third set food holding temperature, and the fourth food holding bay is maintained at a fourth food set holding temperature.

72. (New) The holding bin of claim 36, wherein the at least one user interface is configured to set the food holding temperature of each food holding bay, and the first food holding bay is maintained at a first set food holding temperature, the second food holding bay is maintained at a second set food holding temperature, the third food holding bay is maintained at a third set food holding temperature, the fourth food holding bay is maintained at a fourth food set holding temperature, the fifth food holding bay is maintained at a fifth food set holding temperature, the sixth food holding bay is maintained at a sixth food set holding temperature, the seventh food holding bay is maintained at a seventh food set holding temperature, and the eighth food holding bay is maintained at an eighth food set holding temperature.

73. (New) The holding bin of claim 36, wherein the at least one user interface is configured to set the food holding temperature of each food holding bay and the controller independently operates each heating element such that each food holding bay is maintained at an independently set food holding temperature.

REMARKS

Prior to examination on the merits, please enter the amendments set forth above, wherein claims 17-35 have been canceled. And new claims 36-73 have been added. Support for the new claims may be found variously throughout the application.

No new matter is added. In view of the foregoing amendments, the applicant believes the pending application is in condition for allowance.

The Director is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which, should have been filed wherewith (or with any paper hereafter filed in this application by this firm) to our Deposit Account No. 13-2855, under Order No. 29178/50736CON.

Dated: May 3, 2019

Respectfully submitted,

By /Andrew M. Lawrence/
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PTO/SB/06 (09-11)
Approved for use through 1/31/2014. OMB 0651-0032
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PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 15/984,760	Filing Date 05/21/2018	☐ To be Mailed

ENTITY: ☑ LARGE ☐ SMALL ☐ MICRO

APPLICATION AS FILED - PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA		RATE ($)	FEE ($)
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A		N/A	
☐ SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A		N/A	
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A		N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 =	*		x $100 =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*		x $460 =	
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $310 ($155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).				
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))					
* If the difference in column 1 is less than zero, enter "0" in column 2.				TOTAL	

APPLICATION AS AMENDED - PART II

		(Column 1)		(Column 2)	(Column 3)			
AMENDMENT	05/03/2019	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		RATE ($)	ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	* 38	Minus	** 20	= 18		x $100 =	1800
	Independent (37 CFR 1.16(h))	* 1	Minus	*** 3	= 0		x $460 =	0
	☐ Application Size Fee (37 CFR 1.16(s))							
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							
							TOTAL ADD'L FEE	1800

		(Column 1)		(Column 2)	(Column 3)			
AMENDMENT		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		RATE ($)	ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	*	Minus	**	=		x $0 =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=		x $0 =	
	☐ Application Size Fee (37 CFR 1.16(s))							
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							
							TOTAL ADD'L FEE	

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.	LIE
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".	/MOLIKI I MAY/
*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".	
The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.	

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
15/984,760	05/21/2018	Kyle Thomas Kestner	29178/50736CON

CONFIRMATION NO. 1068

4743
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PUBLICATION NOTICE

OC00000102467137

Title:MULTI-ZONE FOOD HOLDING BIN

Publication No.US-2018-0266696-A1
Publication Date:09/20/2018

NOTICE OF PUBLICATION OF APPLICATION

The above-identified application will be electronically published as a patent application publication pursuant to 37 CFR 1.211, et seq. The patent application publication number and publication date are set forth above.

The publication may be accessed through the USPTO's publically available Searchable Databases via the Internet at www.uspto.gov. The direct link to access the publication is currently http://www.uspto.gov/patft/.

The publication process established by the Office does not provide for mailing a copy of the publication to applicant. A copy of the publication may be obtained from the Office upon payment of the appropriate fee set forth in 37 CFR 1.19(a)(1). Orders for copies of patent application publications are handled by the USPTO's Public Records Division. The Public Records Division can be reached by telephone at (571) 272-3150 or (800) 972-6382, by facsimile at (571) 273-3250, by mail addressed to the United States Patent and Trademark Office, Public Records Division, Alexandria, VA 22313-1450 or via the Internet.

In addition, information on the status of the application, including the mailing date of Office actions and the dates of receipt of correspondence filed in the Office, may also be accessed via the Internet through the Patent Electronic Business Center at www.uspto.gov using the public side of the Patent Application Information and Retrieval (PAIR) system. The direct link to access this status information is currently https://portal.uspto.gov/pair/PublicPair. Prior to publication, such status information is confidential and may only be obtained by applicant using the private side of PAIR.

Further assistance in electronically accessing the publication, or about PAIR, is available by calling the Patent Electronic Business Center at 1-866-217-9197.

Office of Data Managment, Application Assistance Unit (571) 272-4000, or (571) 272-4200, or 1-888-786-0101

Docket No.: 29178/50736CON
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:
Kyle Thomas Kestner et al.

Application No.: 15/984,760 Confirmation 1068

Filed: May 21, 2018 Art Unit: 3742

For: MULTI-ZONE FOOD HOLDING BIN Examiner: Joseph M. Pelham

FIRST PRELIMINARY AMENDMENT UNDER 37 C.F.R. § 1.115

MS Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

INTRODUCTORY COMMENTS

Prior to examination on the merits, please amend the above-identified U.S. patent application as follows:

Amendments to the Specification begin on page 2 of this paper.

Amendments to the Claims are reflected in the listing of claims which begins on page 3 of this paper.

Remarks begin on page 8 of this paper.

AMENDMENTS TO THE SPECIFICATION

Immediately after the title on page 1, please add the following heading and paragraph:

Related Applications

This application is a continuation of U.S. Patent Application No. 15/134,380, filed April 20, 2016, the entirety of which is hereby incorporated by reference herein.

AMENDMENTS TO THE CLAIMS

1-16. (Canceled).

17. (New) A multi-zone food holding bin comprising:

a chassis having a front face and an opposing rear face;

a first food holding compartment within the chassis, the first food holding compartment having at least a first opening, the first opening being open, uncovered and located at the front face of the chassis, the first opening being configured to allow food items to be placed into and removed from the first food holding compartment;

a continuous and planar surface forming a bottom of the food holding compartment, the continuous and planar bottom surface extending completely to the front face of the chassis, and the continuous and planar bottom surface comprising a thermally conductive metal material;

a first food holding zone formed in the first food holding compartment, the first food holding zone having an independently controllable first heating element disposed at a top portion of the first food holding compartment, and an independently controllable second heating element disposed at a bottom portion of the first food holding compartment, the first food holding zone including a first food holding bay and a second food holding bay, each of the first and second food holding bays being configured to receive a food holding tray; and

a second food holding zone formed in the first food holding compartment, the second food holding zone having an independently controllable third heating element disposed at the top portion of the first food holding compartment and an independently controllable fourth heating element disposed at the bottom portion of the first food holding compartment, the second food holding zone including a third food holding bay and a fourth food holding bay, each of the third and fourth food holding bays being configured to receive a food holding tray,

wherein the first food holding zone and the second food holding zone are adjacent one another across the continuous and planar surface and the first food holding zone is configured to maintain a first temperature and the second food holding zone is configured to maintain a second temperature, the first temperature and the second temperature capable of being different than one another.

18. (New) The food holding bin of claim 17, further comprising:

a second food holding compartment disposed below the first food holding compartment within the chassis, the second food holding compartment having at least a first opening, the first opening being open, uncovered and located at the front face of the chassis, the first opening being configured to allow food items to be placed into and removed from the food holding compartment; and

a shelf located between the first and second food holding compartments, the shelf comprising a first side and a second side, the first side facing into the first food holding compartment, the second side facing into the second food holding compartment, the second and fourth heating elements being disposed in the shelf and in thermal communication with the first side, the second and fourth heating elements being capable of providing different amounts of heat energy into the first and second food holding zones of the first food holding compartment; and

a controller operatively coupled to the second heating element and to the fourth heating element, the controller being configured to independently operate the second heating element and the fourth heating element.

19. (New) The food holding bin of claim 18, further comprising a bezel attached to the shelf, the bezel comprising controls or indicators for the first food holding compartment.

20. (New) The food holding bin of claim 18, further comprising a rotatable or translatable latch attached to the shelf.

21. (New) The food holding bin of claim 17, wherein the first independently controllable heating element comprises a resistive wire.

22. (New) The food holding bin of claim 17, wherein the second independently controllable heating element comprises a resistive wire.

23. (New) The food holding bin of claim 17, further comprising a ledge in the first food holding compartment, the ledge being configured to support a lid for the food holding tray.

24. (New) The food holding bin of claim 17, wherein the first and second food holding compartments each have a second opening, uncovered and located at the rear face of the chassis.

25. (New) The food holding bin of claim 17, wherein the first heating element is a radiant heating element.

26. (New) The food holding bin of claim 17, wherein the second heating element is a conductive heating element.

27. (New) The food holding bin of claim 17, wherein the first heating element is adapted to output more heat energy than the second heating element.

28. (New) The food handling bin of claim 17, the first and second food holding bays being further configured to receive a lid, the bin further comprising a lid located in a top portion of the first food holding compartment, the lid capable of being inserted into a first shelf in the first food holding bay above the continuous and planar bottom surface or into a second shelf in the second food holding bay above the continuous and planar bottom surface.

29. (New) The food holding bin of claim 28, further comprising a latch located in the first food holding zone, the latch having a body including an open center portion, the latch being rotatable or translatable relative to the chassis between a locked position and an unlocked position, the latch blocking access to the first shelf and the second shelf in the locked position and allowing access to the first shelf and the second shelf in the unlocked position.

30. (New) The food holding bin of claim 17, further comprising a food holding tray disposed in the first food holding compartment, and in the first food holding bay, and resting on the continuous and planar bottom surface.

31. (New) The food holding bin of claim 30, further comprising a lid on the food holding tray disposed in the first food holding compartment.

32. (New) A method of maintaining different temperatures in a food holding compartment of a food holding bin, the method comprising:

providing a food holding compartment with a first food holding zone and a second food holding zone adjacent to one another, each of the first food holding zone and the second food holding zone including at least two food holding bays, the first and second food holding zones sharing an uninterrupted continuous planar bottom surface comprising a

thermally conductive metal material, the first food holding zone including a first independently controllable heating element that heats from above and also includes a second independently controllable heating element that heats from below;

independently setting a first temperature in the first food holding zone by operating the first independently controllable heating element and by operating the second independently controllable heating element;

independently setting a second temperature in the second food holding zone,

wherein the first temperature is different from the second temperature.

33. (New) The method of claim 32, further comprising providing more heat energy from the first heating element than from the second heating element.

34. (New) The method of claim 32, further comprising providing radiant heat from the first heating element.

35. (New) The method of claim 32, further comprising providing conduction heat from the second heating element.

REMARKS

Prior to examination on the merits, please enter the amendment amendments set forth above, wherein claims 1-16 are canceled and claims 17-35 are new. Support for the new claims may be found variously throughout the application. No new matter is added. In view of the foregoing amendment, the applicant believes the pending application is in condition for allowance.

Dated: August 31, 2018

Respectfully submitted,

By_/Michael A. Chinlund/_____
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Electronic Acknowledgement Receipt

EFS ID:	33602070
Application Number:	15984760
International Application Number:	
Confirmation Number:	1068
Title of Invention:	MULTI-ZONE FOOD HOLDING BIN
First Named Inventor/Applicant Name:	Kyle Thomas Kestner
Customer Number:	4743
Filer:	Michael Alexander Chinlund/Karin Krahn
Filer Authorized By:	Michael Alexander Chinlund
Attorney Docket Number:	29178/50736CON
Receipt Date:	31-AUG-2018
Filing Date:	21-MAY-2018
Time Stamp:	14:04:58
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		Preliminary_Amendment_29178_50736CON.PDF	88041 b0c1962093eaaf8fcb264188b8ce4b644a9aa4b2	yes	8

	Multipart Description/PDF files in .zip description		
	Document Description	**Start**	**End**
	Preliminary Amendment	1	1
	Specification	2	2
	Claims	3	7
	Applicant Arguments/Remarks Made in an Amendment	8	8
Warnings:			
Information:			
	Total Files Size (in bytes):	88041	

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

PATENT APPLICATION FEE DETERMINATION RECORD

Substitute for Form PTO-875

Application or Docket Number: 15/984,760

APPLICATION AS FILED - PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA	SMALL ENTITY RATE($)	SMALL ENTITY FEE($)	OR	OTHER THAN SMALL ENTITY RATE($)	OTHER THAN SMALL ENTITY FEE($)
BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A			N/A	300
SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A	N/A			N/A	660
EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A			N/A	760
TOTAL CLAIMS (37 CFR 1.16(i))	16 minus 20 =	*			OR	x 100 =	0.00
INDEPENDENT CLAIMS (37 CFR 1.16(h))	2 minus 3 =	*				x 460 =	0.00
APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $310 ($155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).						0.00
MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))							0.00
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL			TOTAL	1720

APPLICATION AS AMENDED - PART II

		(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	SMALL ENTITY RATE($)	SMALL ENTITY ADDITIONAL FEE($)	OR	OTHER THAN SMALL ENTITY RATE($)	OTHER THAN SMALL ENTITY ADDITIONAL FEE($)
AMENDMENT A	Total (37 CFR 1.16(i))	*	Minus	**	=	x =		OR	x =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x =		OR	x =	
	Application Size Fee (37 CFR 1.16(s))									
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
						TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	

		(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	SMALL ENTITY RATE($)	SMALL ENTITY ADDITIONAL FEE($)	OR	OTHER THAN SMALL ENTITY RATE($)	OTHER THAN SMALL ENTITY ADDITIONAL FEE($)
AMENDMENT B	Total (37 CFR 1.16(i))	*	Minus	**	=	x =		OR	x =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x =		OR	x =	
	Application Size Fee (37 CFR 1.16(s))									
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
						TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.

** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".

*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".

The "Highest Number Previously Paid For" (Total or Independent) is the highest found in the appropriate box in column 1.

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APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY.DOCKET.NO	TOT CLAIMS	IND CLAIMS
15/984,760	05/21/2018	3742	1720	29178/50736CON	16	2

CONFIRMATION NO. 1068

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FILING RECEIPT

OC000000100185795

Date Mailed: 06/13/2018

Receipt is acknowledged of this non-provisional patent application. The application will be taken up for examination in due course. Applicant will be notified as to the results of the examination. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. **If an error is noted on this Filing Receipt, please submit a written request for a Filing Receipt Correction. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections**

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Applicant(s)

PRINCE CASTLE LLC, Carol Stream, IL;

Assignment For Published Patent Application

PRINCE CASTLE LLC, Carol Stream, IL

Power of Attorney: The patent practitioners associated with Customer Number 04743

Domestic Priority data as claimed by applicant

This application is a CON of 15/134,380 04/20/2016 PAT 9976750

Foreign Applications for which priority is claimed (You may be eligible to benefit from the **Patent Prosecution Highway** program at the USPTO. Please see http://www.uspto.gov for more information.) - None.
Foreign application information must be provided in an Application Data Sheet in order to constitute a claim to foreign priority. See 37 CFR 1.55 and 1.76.

Permission to Access Application via Priority Document Exchange: Yes

Permission to Access Search Results: Yes

Applicant may provide or rescind an authorization for access using Form PTO/SB/39 or Form PTO/SB/69 as appropriate.

If Required, Foreign Filing License Granted: 06/11/2018

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 15/984,760**

Projected Publication Date: 09/20/2018

Non-Publication Request: No

Early Publication Request: No

Title

MULTI-ZONE FOOD HOLDING BIN

Preliminary Class

099

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications: No

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same effect as a regular national patent application in each PCT-member country. The PCT process **simplifies** the filing of patent applications on the same invention in member countries, but **does not result** in a grant of "an international patent" and does not eliminate the need of applicants to file additional documents and fees in countries where patent protection is desired.

Almost every country has its own patent law, and a person desiring a patent in a particular country must make an application for patent in that country in accordance with its particular laws. Since the laws of many countries differ in various respects from the patent law of the United States, applicants are advised to seek guidance from specific foreign countries to ensure that patent rights are not lost prematurely.

Applicants also are advised that in the case of inventions made in the United States, the Director of the USPTO must issue a license before applicants can apply for a patent in a foreign country. The filing of a U.S. patent application serves as a request for a foreign filing license. The application's filing receipt contains further information and guidance as to the status of applicant's license for foreign filing.

Applicants may wish to consult the USPTO booklet, "General Information Concerning Patents" (specifically, the section entitled "Treaties and Foreign Patents") for more information on timeframes and deadlines for filing foreign patent applications. The guide is available either by contacting the USPTO Contact Center at 800-786-9199, or it can be viewed on the USPTO website at http://www.uspto.gov/web/offices/pac/doc/general/index.html.

For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, http://www.stopfakes.gov. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4258).

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Title 35, United States Code, Section 184

Title 37, Code of Federal Regulations, 5.11 & 5.15

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Doc Code: PA..
Document Description: Power of Attorney

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NOTE: This form is to be submitted with the Power of Attorney by Applicant form (PTO/AIA/82B) to identify the application to which the Power of Attorney is directed, in accordance with 37 CFR 1.5, unless the application number and filing date are identified in the Power of Attorney by Applicant form. If neither form PTO/AIA/82A nor form PTO/AIA82B identifies the application to which the Power of Attorney is directed, the Power of Attorney will not be recognized in the application.

Application Number	Not Yet Assigned
Filing Date	Concurrently Herewith
First Named Inventor	Kyle Thomas Kestner
Title	MULTI-ZONE FOOD HOLDING BIN
Art Unit	Not Yet Assigned
Examiner Name	Not Yet Assigned
Attorney Docket Number	29178/50736CON

SIGNATURE of Applicant or Patent Practitioner

Signature	/Andrew M. Lawrence/	Date (Optional)	May 21, 2018
Name	Andrew M. Lawrence	Registration Number	46,130
Title (if Applicant is a juristic entity)			
Applicant Name (if Applicant is a juristic entity)			

NOTE: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4(d) for signature requirements and certifications. If more than one applicant, use multiple forms.

☐ *Total of 1 forms are submitted.

Doc Code: PA..
Document Description: Power of Attorney

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POWER OF ATTORNEY BY APPLICANT

I hereby revoke all previous powers of attorney given in the application identified in either the attached transmittal letter or the boxes below.

Application Number	Filing Date

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[X] I hereby appoint the Patent Practitioner(s) associated with the following Customer Number as my/our attorney(s) or agent(s), and to transact all business in the United States Patent and Trademark Office connected therewith for the application referenced in the attached transmittal letter (form PTO/AIA/82A) or identified above: 04743

OR

[ ] I hereby appoint Practitioner(s) named in the attached list (form PTO/AIA/82C) as my/our attorney(s) or agent(s), and to transact all business in the United States Patent and Trademark Office connected therewith for the patent application referenced in the attached transmittal letter (form PTO/AIA/82A) or identified above. (Note: Complete form PTO/AIA/82C.)

Please recognize or change the correspondence address for the application identified in the attached transmittal letter or the boxes above to:

[ ] The address associated with the above-mentioned Customer Number

OR

[ ] The address associated with Customer Number:

OR

Firm or Individual Name					
Address					
City		State		Zip	
Country					
Telephone		Email			

I am the Applicant (if the Applicant is a juristic entity, list the Applicant name in the box):

PRINCE CASTLE LLC

[ ] Inventor or Joint Inventor (title not required below)

[ ] Legal Representative of a Deceased or Legally Incapacitated Inventor (title not required below)

[X] Assignee or Person to Whom the Inventor is Under an Obligation to Assign (provide signer's title if applicant is a juristic entity)

[ ] Person Who Otherwise Shows Sufficient Proprietary Interest (e.g., a petition under 37 CFR 1.46(b)(2) was granted in the application or is concurrently being filed with this document) (provide signer's title if applicant is a juristic entity)

SIGNATURE of Applicant for Patent

The undersigned (whose title is supplied below) is authorized to act on behalf of the applicant (e.g., where the applicant is a juristic entity).

Signature		Date (Optional)	
Name	Loren Veltrop		
Title	Vice President		

NOTE: Signature - This form must be signed by the applicant in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications. If more than one applicant, use multiple forms.

[ ] Total of 1 forms are submitted.

Electronic Patent Application Fee Transmittal

Application Number:	
Filing Date:	
Title of Invention:	MULTI-ZONE FOOD HOLDING BIN
First Named Inventor/Applicant Name:	Kyle Thomas Kestner
Filer:	Andrew Michael Lawrence/Grace Di Cosola
Attorney Docket Number:	29178/50736CON

Filed as Large Entity

Filing Fees for Utility under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
UTILITY APPLICATION FILING	1011	1	300	300
UTILITY SEARCH FEE	1111	1	660	660
UTILITY EXAMINATION FEE	1311	1	760	760
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Miscellaneous:				
			Total in USD ($)	**1720**

Electronic Acknowledgement Receipt

EFS ID:	32676496
Application Number:	15984760
International Application Number:	
Confirmation Number:	1068
Title of Invention:	MULTI-ZONE FOOD HOLDING BIN
First Named Inventor/Applicant Name:	Kyle Thomas Kestner
Customer Number:	04743
Filer:	Andrew Michael Lawrence/Grace Di Cosola
Filer Authorized By:	Andrew Michael Lawrence
Attorney Docket Number:	29178/50736CON
Receipt Date:	21-MAY-2018
Filing Date:	
Time Stamp:	13:57:15
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	$1720
RAM confirmation Number	052218INTEFSW13583100
Deposit Account	132855
Authorized User	Grace DiCosola

The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:

37 CFR 1.16 (National application filing, search, and examination fees)

37 CFR 1.17 (Patent application and reexamination processing fees)

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Transmittal of New Application	Utility_Patent_Application_Transmittal.PDF	34020 fd435dcb6da7ae97fdf56444ec57531025aac3b6	no	1
Warnings:					
Information:					
2	Application Data Sheet	Application_Data_Sheet.PDF	31422 47915827b2f301be681a85a48e532529b2490c70	no	7
Warnings:					
Information:					
This is not an USPTO supplied ADS fillable form					
3	Oath or Declaration filed	Executed_Declaration_29178_50736.PDF	906751 424dab795e492d643166688fe12e1f2fef78093e	no	4
Warnings:					
Information:					
4		Application_FOR_FILING_29178_50736CON.PDF	63707 e9e54a2fe2c363cbc501c5e7acd2ec52ab2ad19e	yes	20

Multipart Description/PDF files in .zip description		
Document Description	**Start**	**End**
Abstract	20	20
Claims	16	19
Specification	1	15

Warnings:

Information:

5	Drawings-only black and white line drawings	Drawings_FOR_FILING_29178_50736CON.PDF	1825397 0b860130f73fd1d2af1509a92431054438fcf52a	no	6
Warnings:					
Information:					
6	Transmittal Letter	Information_Disclosure_Statement_29178_50736CON.PDF	15888 5faa7b4a9670e4e660e84d7a9fadf0d11c1fb4ad	no	1
Warnings:					
Information:					
7	Information Disclosure Statement (IDS) Form (SB08)	IDS_Citation_by_Applicant_204_References.PDF	138103 a4865c865dc3d2a9cd938d093cb94758aea38d80	no	12
Warnings:					
Information:					
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8	Power of Attorney	POA_or_Authorization_of_Agent.PDF	1346383 bc643eb2974be3c5c4f19ca94e4b0d586ffd99d2	no	2
Warnings:					
Information:					
9	Fee Worksheet (SB06)	fee-info.pdf	35148 a6c4ac6ef26da7ebb4e7e626ba1607c2492d7402	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	4396819		

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 1 of 12

Complete if Known	
Application Number	Not Yet Assigned
Filing Date	Concurrently Herewith
First Named Inventor	Kyle Thomas Kestner
Art Unit	Not Yet Assigned
Examiner Name	Not Yet Assigned
Attorney Docket Number	29178/50736CON

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Document Number Number-Kind Code[2] *(if known)*	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		US-2,386,919	10-16-1945	Tobey	
		US-2,900,806	08-25-1959	Wurtz et al.	
		US-2,934,913	05-03-1960	Haines et al.	
		US-3,042,384	07-03-1962	Bauman	
		US-3,275,393	09-27-1966	Stentz et al.	
		US-3,301,618	01-31-1967	Feldser et al.	
		US-3,308,633	03-14-1967	Kritzer, Jr.	
		US-3,393,630	07-23-1968	Pickens	
		US-3,414,709	12-03-1968	Tricault	
		US-3,696,720	10-10-1972	Vinson	
		US-3,950,632	04-13-1976	Rivelli	
		US-3,979,056	09-07-1976	Barnes	
		US-4,036,995	07-19-1977	Koether et al.	
		US-4,077,690	03-07-1978	Koether	
		US-4,093,041	06-06-1978	Davis et al.	
		US-4,278,872	07-14-1981	Koether et al.	
		US-4,306,616	12-22-1981	Woods, Jr. et al.	
		US-4,355,521	10-26-1982	Tsai	
		US-4,388,689	06-14-1983	Hayman et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Foreign Patent Document Country Code[3] Number[4] Kind Code[5] *(if known)*	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T[6]
		JP-10079088	03-24-1998	Toshiba Eng. Co. Ltd.		
		JP-11342061	12-14-1999	Shinwa Denshi Device Hanbai KK and NT Corporation:KK		
		JP-8000414	01-09-1996	Yamatake Honeywell Co. Ltd.		
		WO-01/31533-A1	05-03-2001	Salerno, Mark		
		WO-2005/034633-A1	04-21-2005	Duke Mfg Co		

Examiner Signature		Date Considered	

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Sheet 2 of 12

Complete if Known	
Application Number	Not Yet Assigned
Filing Date	Concurrently Herewith
First Named Inventor	Kyle Thomas Kestner
Art Unit	Not Yet Assigned
Examiner Name	Not Yet Assigned
Attorney Docket Number	29178/50736CON

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Document Number Number-Kind Code[2] *(if known)*	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		US-4,530,067	07-16-1985	Dorr	
		US-4,569,421	02-11-1986	Sandstedt	
		US-4,610,238	09-09-1986	Veth	
		US-4,633,230	12-30-1986	Tam	
		US-4,644,931	02-24-1987	Veth	
		US-4,688,475	08-25-1987	Witt et al.	
		US-4,740,888	04-26-1988	Ceste, Sr. et al.	
		US-4,742,455	05-03-1988	Schreyer	
		US-4,782,445	11-01-1988	Pasquini	
		US-4,812,625	03-14-1989	Ceste, Sr.	
		US-4,812,963	03-14-1989	Albrecht et al.	
		US-4,864,498	09-05-1989	Pasquini et al.	
		US-4,911,068	03-27-1990	Koether et al.	
		US-4,922,435	05-01-1990	Cahlander et al.	
		US-5,003,472	03-26-1991	Perrill et al.	
		US-5,069,273	12-03-1991	O'Hearne	
		US-5,093,556	03-03-1992	Oelfke	
		US-5,128,862	07-07-1992	Mueller	
		US-5,132,914	07-21-1992	Cahlander et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Foreign Patent Document Country Code[3] Number[4] Kind Code[5] *(if known)*	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T[6]

Examiner Signature		Date Considered	

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Substitute for form 1449/PTO				***Complete if Known***	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	Not Yet Assigned
				Filing Date	Concurrently Herewith
				First Named Inventor	Kyle Thomas Kestner
(Use as many sheets as necessary)				Art Unit	Not Yet Assigned
				Examiner Name	Not Yet Assigned
Sheet	3	of	12	Attorney Docket Number	29178/50736CON

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No.[1]	Document Number Number-Kind Code[2] *(if known)*	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		US-5,172,328	12-15-1992	Cahlander et al.	
		US-5,188,020	02-23-1993	Buchnag	
		US-5,216,918	06-08-1993	Landis et al.	
		US-5,218,527	06-08-1993	Ishikawa et al.	
		US-5,247,807	09-28-1993	Jarman et al.	
		US-5,253,564	10-19-1993	Rosenbrock et al.	
		US-5,357,426	10-18-1994	Morita et al.	
		US-5,485,780	01-23-1996	Koether et al.	
		US-5,504,589	04-02-1996	Montague et al.	
		US-5,510,979	04-23-1996	Moderi et al.	
		US-5,539,671	07-23-1996	Albrecht et al.	
		US-5,553,312	09-03-1996	Gattey et al.	
		US-5,579,952	12-03-1996	Fiedler et al.	
		US-5,590,586	01-07-1997	Ulfig et al.	
		US-5,594,222	01-14-1997	Caldwell	
		US-5,616,269	04-01-1997	Fowler et al.	
		US-5,653,906	08-05-1997	Fowler et al.	
		US-5,724,886	03-10-1998	Ewald et al.	
		US-5,772,072	06-30-1998	Prescott et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No.[1]	Foreign Patent Document Country Code[3] Number[4] Kind Code[5] *(if known)*	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T[6]

Examiner Signature		Date Considered	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 4 of 12

Complete if Known	
Application Number	Not Yet Assigned
Filing Date	Concurrently Herewith
First Named Inventor	Kyle Thomas Kestner
Art Unit	Not Yet Assigned
Examiner Name	Not Yet Assigned
Attorney Docket Number	29178/50736CON

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Document Number Number-Kind Code[2] *(if known)*	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		US-5,783,803	07-21-1998	Robards, Jr.	
		US-5,812,393	09-22-1998	Drucker	
		US-5,900,173	05-04-1999	Robards, Jr.	
		US-5,921,096	07-13-1999	Warren	
		US-5,931,083	08-03-1999	Stanger et al.	
		US-5,939,974	08-17-1999	Heagle et al.	
		US-5,944,324	08-31-1999	Schultheis et al.	
		US-5,947,012	09-07-1999	Ewald et al.	
		US-6,000,622	12-14-1999	Tonner et al.	
		US-6,006,996	12-28-1999	Bhatnagar	
		US-6,011,243	01-04-2000	Arnold et al.	
		US-6,026,372	02-15-2000	Savage	
		US-6,031,208	02-29-2000	Witt et al.	
		US-6,052,667	04-18-2000	Walker et al.	
		US-6,088,681	07-11-2000	Coleman et al.	
		US-6,114,659	09-05-2000	Finck et al.	
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	Not Yet Assigned
				Filing Date	Concurrently Herewith
				First Named Inventor	Kyle Thomas Kestner
				Art Unit	Not Yet Assigned
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Sheet	5	of	12	Attorney Docket Number	29178/50736CON

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		US-6,158,885	12-12-2000	Landis	
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				Examiner Name	Not Yet Assigned
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		US-2014/0057031-A1	02-27-2014	Ewald et al.	
		US-2014/0083309-A1	03-27-2014	Reese et al.	
		US-2014/0130684-A1	05-15-2014	Reese et al.	
		US-2014/0150461	06-05-2014	Veltrop	
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		"Modular Holding Cabinets", Product Catalog, Carter-Hoffmann, Mundelein, Illinois (January 2014).	
		Betzold et al., U.S. Patent Application No. 14/278,549, "Modular Food Holding Cabinet Having Individually Configurable Food Holding Units", filed May 15, 2014.	
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		Prince Castle LLC, Holding Bins (www.princecastle.com <http://www.princecastle.com>).	
		Prince Castle LLC, Holding Panels (www.princecastle.com <http://www.princecastle.com>).	

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		Reider, "How to Say What Stuff Looks Like, Ontario, Canada: Marcus Books, p.62 (1995).	
		Thermodyne Food Products, Inc., Counter Top Holding Oven Model 300 NDNL specification.	
		Veltrop et al., U.S. Design Patent Application No. 29/450,074, "Food Warmer", filed March 15, 2013.	
		Veltrop et al., U.S. Design Patent Application No. 29/494,683, "Food Warmer", filed June 23, 2014.	

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UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No.	29178/50736CON
First Named Inventor	Kyle Thomas Kestner
Title	MULTI-ZONE FOOD HOLDING BIN
Priority Mail Express® Label No.	

APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents.

1. [ ] **Fee Transmittal Form** (PTO/SB/17 or equivalent)
2. [ ] **Applicant asserts small entity status.** See 37 CFR 1.27
3. [ ] **Applicant certifies micro entity status.** See 37 CFR 1.29. Applicant must attach form PTO/SB/15A or B or equivalent.
4. [X] **Specification** [*Total Pages* 20]
   Both the claims and abstract must start on a new page.
   (See MPEP § 608.01(a) for information on the preferred arrangement)
5. [X] **Drawing(s)** (35 U.S.C. 113) [*Total Sheets* 6]
6. **Inventor's Oath or Declaration** [*Total Pages* 4]
   (including substitute statements under 37 CFR 1.64 and assignments serving as an oath or declaration under 37 CFR 1.63(e))
   a. [ ] Newly executed (original or copy)
   b. [X] A copy from a prior application (37 CFR 1.63(d))
7. [X] **Application Data Sheet** ** See note below.*
   See 37 CFR 1.76 (PTO/AIA/14 or equivalent)
8. **CD-ROM or CD-R** in duplicate, large table, or Computer Program (*Appendix*)
   [ ] Landscape Table on CD
9. **Nucleotide and/or Amino Acid Sequence Submission** (*if applicable, items a. – c. are required*)
   a. [ ] Computer Readable Form (CRF)
   b. [ ] Specification Sequence Listing on:
      i. [ ] CD-ROM or CD-R (2 copies); or
      ii. [ ] Paper
   c. [ ] Statements verifying identity of above copies

ADDRESS TO: **Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450**

ACCOMPANYING APPLICATION PAPERS

10. [ ] **Assignment Papers** (cover sheet & document(s))
    Name of Assignee
11. [ ] **37 CFR 3.73(c) Statement** (*when there is an assignee*) [X] **Power of Attorney**
12. [ ] **English Translation Document** (*if applicable*)
13. [X] **Information Disclosure Statement** (PTO/SB/08 or PTO-1449)
    [ ] Copies of citations attached
14. [ ] **Preliminary Amendment**
15. [ ] **Return Receipt Postcard** (*MPEP § 503*) (*Should be specifically itemized*)
16. [ ] **Certified Copy of Priority Document(s)** (*if foreign priority is claimed*)
17. [ ] **Nonpublication Request** Under 35 U.S.C. 122(b)(2)(B)(i). Applicant must attach form PTO/SB/35 or equivalent.
18. [ ] **Other:**

***Note:** (1) Benefit claims under 37 CFR 1.78 and foreign priority claims under 1.55 **must** be included in an Application Data Sheet (ADS).
(2) For applications filed under 35 U.S.C. 111, the application must contain an ADS specifying the applicant if the applicant is an assignee, person to whom the inventor is under an obligation to assign, or person who otherwise shows sufficient proprietary interest in the matter. See 37 CFR 1.46(b).

19. CORRESPONDENCE ADDRESS

[X] The address associated with Customer Number: 04743 **OR** [ ] Correspondence address below

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Address					
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Country		Telephone		Email	

Signature	/Andrew M. Lawrence/	Date	May 21, 2018
Name (Print/Type)	Andrew M. Lawrence	Registration No. (Attorney/Agent)	46,130

I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being transmitted via the Office electronic filing system in accordance with 37 C.F.R. § 1.6(a)(4).

Dated: May 21, 2018 Signature: /Andrew M. Lawrence/ (Andrew M. Lawrence, Reg. No. 46,130)

Application Data Sheet

Inventor Information

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Postal or Zip Code of mailing address::	60177

Correspondence Information

Correspondence Customer Number::	04743

Application Information

Application Type::	Regular
Subject Matter::	Utility
CD-ROM or CD-R?::	None
Sequence submission?::	None
Computer Readable Form (CRF)?::	No

Title::	MULTI-ZONE FOOD HOLDING BIN
Attorney Docket Number::	29178/50736CON
Request for Early Publication?::	No
Request for Non-Publication?::	No
Total Drawing Sheets::	6
Small Entity?::	No
Petition included?::	No
Portions or all of the application associated with this Application Data Sheet may fall under a Secrecy Order pursuant to 37 CFR 5.2::	No

Representative Information

Representative Customer Number::	04743

Domestic Priority Information

Application::	Continuity Type::	Parent Application::	Parent Filing Date::	Prior Appl Status::
This Application	Continuation of	15/134,380	04/20/16	Pending

Foreign Priority Information

Applicant Information

Applicant Number::	1
Applicant Type::	Assignee
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City of mailing address::	Carol Stream
State or Province of mailing address::	IL
Country of mailing address::	US
Postal or Zip Code of mailing address::	60188

Assignee Information Including Non-Applicant Assignee Information

Assignee Number::	1
Organization Name::	PRINCE CASTLE LLC
Street of mailing address::	355 East Kehoe Boulevard
City of mailing address::	Carol Stream
State or Province of mailing address::	IL
Country of mailing address::	US
Postal or Zip Code of mailing address::	60188

Authorization or Opt-Out of Authorization to Permit Access

When this Application Data Sheet is properly signed and filed with the application, applicant has provided written authority to permit a participating foreign intellectual property (IP) office access to the instant application-as-filed (see paragraph A in subsection 1 below) and the European Patent Office (EPO) access to any search results from the instant application (see paragraph B in subsection 1 below).

Should applicant choose not to provide an authorization identified in subsection 1 below, applicant **must opt-out** of the authorization by checking the corresponding box A or B or both in subsection 2 below.

NOTE: This section of the Application Data Sheet is **ONLY** reviewed and processed with the **INITIAL** filing of an application. After the initial filing of an application, an Application Data Sheet cannot be used to provide or rescind authorization for access by a foreign IP office(s). Instead, Form PTO/SB/39 or PTO/SB/69 must be used as appropriate.

1. Authorization to Permit Access by a Foreign Intellectual Property Office(s)

A. Priority Document Exchange (PDX) - Unless box A in subsection 2 (opt-out of authorization) is checked, the undersigned hereby **grants the USPTO authority** to provide the European Patent Office (EPO), the Japan Patent Office (JPO), the Korean Intellectual Property Office (KIPO), the State Intellectual Property Office of the People's Republic of China (SIPO), the World Intellectual Property Organization (WIPO), and any other foreign intellectual property office participating with the USPTO in a bilateral or multilateral priority document exchange agreement in which a foreign application claiming priority to the instant patent application is filed, access to: (1) the instant patent application-as-filed and its related bibliographic data, (2) any foreign or domestic application to which priority or benefit is claimed by the instant application and its related bibliographic data, and (3) the date of filing of this Authorization. See 37 CFR 1.14(h)(1).

B. Search Results from U.S. Application to EPO - Unless box B in subsection 2 (opt-out of authorization) is checked, the undersigned hereby **grants the USPTO authority** to provide the EPO access to the bibliographic data and search results from the instant patent application when a European patent application claiming priority to the instant patent application is filed. See 37 CFR 1.14(h)(2).

The applicant is reminded that the EPO's Rule 141(1) EPC (European Patent Convention) requires applicants to submit a copy of search results from the instant application without delay in a European patent application that claims priority to the instant application.

2. Opt-Out of Authorizations to Permit Access by a Foreign Intellectual Property Office(s)

☐ A. Applicant **DOES NOT** authorize the USPTO to permit a participating foreign IP office access to the instant application-as-filed. If this box is checked, the USPTO will not be providing a participating foreign IP office with any documents and information identified in subsection 1A above.

☐ B. Applicant **DOES NOT** authorize the USPTO to transmit to the EPO any search results from the instant patent application. If this box is checked, the USPTO will not be providing the EPO with search results from the instant application.

NOTE: Once the application has published or is otherwise publicly available, the USPTO may provide access to the application in accordance with 37 CFR 1.14.

Signature:

NOTE: This Application Data Sheet must be signed in accordance with 37 CFR 1.33(b). **However, if this Application Data Sheet is submitted with the INITIAL filing of the application and either box A or B is not checked in subsection 2 of the "Authorization or Opt-Out of Authorization to Permit Access" section, then this form must also be signed in accordance with 37 CFR 1.14(c).** This Application Data Sheet **must** be signed by a patent practitioner if one or more of the applicants is a **juristic entity** (e.g., corporation or association). If the applicant is two or more joint inventors, this form must be signed by a patent practitioner, **all** joint inventors who are the applicant, or one or more joint inventor-applicants who have been given power of attorney (e.g., see USPTO Form PTO/AIA/81) on behalf of **all** joint inventor-applicants. See 37 CFR 1.4(d) for the manner of making signatures and certifications.			
Signature	/Andrew M. Lawrence/	Date (YYYY-MM-DD)	2018-05-21
Name	Andrew M. Lawrence	Registration Number	46,130

DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76)

Title of Invention	Mutli-Zone Food Holding Bin

As the below named inventor, I hereby declare that:

This declaration is directed to:

☐ The attached application, or

☒ United States application or PCT international application number 15/134,380 filed on 04/20/2016 .

☐ As Amended on _____ (if applicable)

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

I have reviewed and understand the contents of the above identified specification, including the claims, as amended by an amendment, if any, specifically referred to herein. I acknowledge the duty to disclose information that is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information that became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

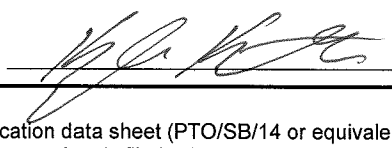
I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

WARNING:

Petitioner/applicant is cautioned to avoid submitting personal information in documents filed in a patent application that may contribute to identity theft. Personal information such as social security numbers, bank account numbers, or credit card numbers (other than a check or credit card authorization form PTO-2038 submitted for payment purposes) is never required by the USPTO to support a petition or an application. If this type of personal information is included in documents submitted to the USPTO, petitioners/applicants should consider redacting such personal information from the documents before submitting them to the USPTO. Petitioner/applicant is advised that the record of a patent application is available to the public after publication of the application (unless a non-publication request in compliance with 37 CFR 1.213(a) is made in the application) or issuance of a patent. Furthermore, the record from an abandoned application may also be available to the public if the application is referenced in a published application or an issued patent (see 37 CFR 1.14). Checks and credit card authorization forms PTO-2038 submitted for payment purposes are not retained in the application file and therefore are not publicly available.

LEGAL NAME OF INVENTOR

Inventor: Kyle Thomas Kestner Date (Optional): _____

Signature: 

Note: An application data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form or must have been previously filed. Use an additional PTO/AIA/01 form for each additional inventor.

DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76)

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This declaration is directed to:

☐ The attached application, or

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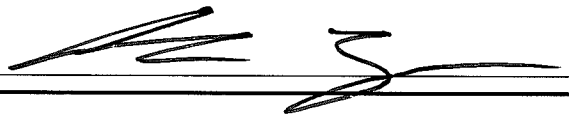
LEGAL NAME OF INVENTOR

Inventor: Christopher B. Lyons, Jr. Date (Optional): _____

Signature: 

Note: An application data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form or must have been previously filed. Use an additional PTO/AIA/01 form for each additional inventor.

Attorney Docket No.: 29178/50736 01 (modified)

DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76)

Title of Invention	Mutli-Zone Food Holding Bin

As the below named inventor, I hereby declare that:

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☐ As Amended on _____ (if applicable)

The above-identified application was made or authorized to be made by me.

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LEGAL NAME OF INVENTOR

Inventor: Charles B. Hartfelder Date (Optional): _____

Signature: Charles B. Hartfelder

Note: An application data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form or must have been previously filed. Use an additional PTO/AIA/01 form for each additional inventor.

Attorney Docket No.: 29178/50736 01 (modified)

DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76)

Title of Invention	Mutli-Zone Food Holding Bin

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This declaration is directed to:

- [ ] The attached application, or
- [x] United States application or PCT international application number 15/134,380 filed on 04/20/2016 .
  - [ ] As Amended on _____ (if applicable)

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

I have reviewed and understand the contents of the above identified specification, including the claims, as amended by an amendment, if any, specifically referred to herein. I acknowledge the duty to disclose information that is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information that became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

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LEGAL NAME OF INVENTOR

Inventor: Zachary N. McCoy Date (Optional): _____

Signature: Zachary N McCoy

Note: An application data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form or must have been previously filed. Use an additional PTO/AIA/01 form for each additional inventor.

ABSTRACT

A multi-zone food holding bin has a continuous food supporting surface with multiple food holding zones. Each food holding zone is independently controllable so that different food temperatures may be maintained in adjacent food holding zones.

What is claimed is:

1. A multi-zone food holding bin comprising:

a chassis having a front face and an opposing rear face;

a first food holding compartment within the chassis, the food holding compartment having at least a first opening, the first opening being open, uncovered and located at the front face of the chassis, the first opening being configured to allow food items to be placed into and removed from the food holding compartment;

a continuous and planar surface forming a bottom of the food holding compartment;

a first food holding zone formed in the food holding compartment, the first food holding zone having an independently controllable first heating element disposed at a top portion of the food holding compartment, and an independently controllable second heating element disposed at a bottom portion of the food holding compartment, the first food holding zone including a first food holding bay and a second food holding bay, each of the first and second food holding bays being configured to receive a food holding tray; and

a second food holding zone formed in the food holding compartment, the second food holding zone having an independently controllable third heating element disposed at the top portion of the food holding compartment and an independently controllable fourth heating element disposed at the bottom portion of the food holding compartment, the second food holding zone including a third food holding bay and a fourth food holding bay, each of the third and fourth food holding bays being configured to receive a food holding tray,

wherein the first food holding zone and the second food holding zone are adjacent one another across the continuous planar surface and the first food holding zone is configured to maintain a first temperature and the second food holding zone is configured to maintain a second temperature, the first temperature and the second temperature capable of being different than one another.

2. The food holding bin of claim 1, further comprising:

a second food holding compartment disposed below the first food holding compartment within the chassis, the second food holding compartment having at least a first opening, the first opening being open, uncovered and located at the front face of the chassis, the first opening being configured to allow food items to be placed into and removed from the food holding compartment; and

a shelf located between the first and second food holding compartments, the shelf comprising a first side and a second side, the first side facing into the first food holding compartment, the second side facing into the second food holding compartment, the second and fourth heating elements being disposed in the shelf and in thermal communication with the first side, the second and fourth heating elements being capable of providing different amounts of heat energy into the first and second food holding zones of the first food holding compartment; and

a controller operatively coupled to the second heating element and to the fourth heating element, the controller being configured to independently operate the second heating element and the fourth heating element.

3. The food holding bin of claim 1, wherein the first and second food holding compartments each have a second opening, uncovered and located at the rear face of the chassis.

4. The food holding bin of claim 1, wherein the first heating element is a radiant heating element.

5. The food holding bin of claim 1, wherein the second heating element is a conductive heating element.

6. The food holding bin of claim 1, wherein the first heating element is adapted to output more heat energy than the second heating element.

7. The food handling bin of claim 1, the first and second food holding bays being further configured to receive a lid, the bin further comprising a lid located in a top portion of the first food holding compartment, the lid capable of being inserted into a first shelf in the first food holding bay above the continuous and planar bottom surface or into a second shelf in the second food holding bay above the continuous and planar bottom surface.

8. The food holding bin of claim 7, further comprising a latch located in the first food holding zone, the latch having a body including an open center portion, the latch being rotatable or translatable relative to the chassis between a locked position and an unlocked position, the latch blocking access to the first shelf and the second shelf in the locked position and allowing access to the first shelf and the second shelf in the unlocked position.

9. The food holding bin of claim 1, further comprising a food holding tray disposed in the first food holding compartment, and in the first food holding bay, and resting on the continuous and planar bottom surface.

10. The food holding bin of claim 9, further comprising a lid on the food holding tray disposed in the first food holding compartment.

11. The food holding bin of claim 1, wherein at least one of the first heating element and the second heating element is an electrically resistive heating wire.

12. A method of maintaining different temperatures in a food holding compartment of a food holding bin, the method comprising:

providing a food holding compartment with a first food holding zone and a second food holding zone adjacent to one another, each of the first food holding zone and the second food holding zone including at least two food holding bays, the first and second food holding zones sharing an uninterrupted continuous planar bottom surface;

independently setting a first temperature in the first food holding zone;

independently setting a second temperature in the second food holding zone,

wherein the first temperature is different from the second temperature.

13. The method of claim 12, wherein the first food holding zone includes an independently controlled first heating element located in a top portion of the food holding compartment and an independently controlled second heating element located in a bottom portion of the food holding compartment.

14. The method of claim 13, further comprising providing more heat energy from the first heating element than from the second heating element.

15. The method of claim 13, further comprising providing radiant heat from the first heating element.

16. The method of claim 13, further comprising providing conduction heat from the second heating element.

MULTI-ZONE FOOD HOLDING BIN

CROSS-REFERENCE TO RELATED APPLICATION

[0001] This application is a continuation of U.S. Patent Application No. 15/134,380, filed April 20, 2016, which is incorporated herein by reference in its entirety and made a part hereof.

BACKGROUND

[0002] Often the success of a restaurant depends, at least in part, on how quickly customers can be served with ordered food items and also on the quality of the food items when served. If the rate of food preparation equals the rate at which the food is ordered and sold, a restaurant can theoretically have freshly-prepared foods ready to serve for customers as they arrive. Since it is not always possible to match food production with customer ordering rates, and since certain fast food restaurant customers expect to receive their ordered food items quickly, many fast food restaurants prepare various food items in advance and keep them ready for sale until a customer arrives and purchases a pre-cooked food item.

[0003] To facilitate the food holding process, holding bins or holding ovens are often used to keep the food warm. Known holding bins can allow a cooked food item to be inserted from one side and taken from the opposite side whereby food preparers add food to the holding bin on one side and food servers on the opposite side take food from the holding bin. Food holding bins in which the cooked food item is inserted and removed from the same side are also known. The food items in the holding bins are kept warm by heating elements. However, food holding time in known holding bins or ovens is somewhat limited, generally less than 15 or 20 minutes before the food item must be discarded. As a result, restaurants can only keep a limited amount of pre-cooked food items on hand and often a significant amount of the pre-cooked food items must be discarded before they are sold, resulting in additional costs.

BRIEF DESCRIPTION OF THE DRAWINGS

[0004] FIG. 1 is a perspective view of a multi-zone food holding bin;

[0005] FIG. 2 is a front elevational view of the multi-zone food holding bin of FIG. 1;

[0006] FIG. 3 is a rear elevational view of the multi-zone food holding bin of FIG. 1;

[0007] FIG. 4A is a partially cut-away top perspective view of an alternate embodiment of a multi-zone food holding bin, and FIG. 4B is a close up of a shelf portion of the multi-zone food holding bin from circle 4B in FIG. 4A;

[0008] FIG. 5 is a partially cut-away bottom perspective view of the food holding bin of FIG. 4; and

[0009] FIG. 6 is a partially cutaway top perspective view of yet another alternate embodiment of a multi-zone food holding bin.

DETAILED DESCRIPTION

[0010] Turning now to FIGS. 1-3, a multi-zone food holding bin 10 includes two separate food holding compartments 50. Additional food holding compartments 50 may also be included as explained in further detail below. Each separate food holding compartment 50 includes two or more separate food holding zones, for example, as illustrated in FIGS. 1-3, a first food holding zone 57a and a second food holding zone 57b. Each food holding zone 57a, 57b may include two food holding bays. For example, the first food holding zone 57a may include a first food holding bay 51a and a second food holding bay 51b. The second food holding zone 57b may include a third food holding bay 51c and a fourth food holding bay 51d. Each food holding bay 51a, 51b, 51c, 51d is capable of receiving a single food holding tray 27 and/or a single lid 21, as illustrated in the third food holding bay 51c in FIG. 2. The food holding bays 51a, 51b, 51c, and 51d are illustrated as being separated from one another by a dashed line in FIGS. 1-3. The dashed lines are for illustration only. The food holding bays need not have their boundaries identified with any sort of line or other indicia in food holding compartment 50. Each food holding zone 57a, 57b can be configured to maintain a different food holding temperature, advantageously allowing the operator to hold different food products with different heating requirements in the same food holding compartment 50, thereby permitting increased energy efficiencies to be realized and potentially reducing the space requirements for holding different foods. For example, a first food product can be held in the first food holding bay 51a of the first food holding zone 57a and a second food product, which may be the same as the first food

product or different from the first food product as long as both food products have substantially the same temperature requirements, can be held in the second food holding bay 51b of the first food holding zone 57a. Both the first food holding bay 51a and the second food holding bay 51b are held at a first temperature by independently controllable upper and lower heating elements. A third food product can be held in the third food holding bay 51c of the second food holding zone 57b and a fourth food product, which may be the same as the third food product or different from the third food product as long as both food products have substantially the same temperature requirements, may be held in the fourth food holding bay 51d of the second food holding zone 57b. Both the third food holding bay 51c and the fourth food holding bay 51d are held at a second temperature by independently controllable upper and lower heating elements. Because the heating elements used to heat the second food holding zone 57b are different from those used to heat the first food holding zone 57a, he second temperature of the second food holding zone 57b is capable of being independently set to be different from the first temperature of the first food holding zone 57a. Suitable heating elements are illustrated with respect to the embodiment shown in FIGS. 4A, 4B, and 5. This can be particularly useful for restaurants during lower demand times (as fewer food holding bins are needed to hold larger numbers of different food items than previously) and also for smaller restaurants and retail operations (as space constraints can be met more easily).

[0011] In one embodiment of the bin 10, all of the compartments 50 are heated. In another embodiment, some compartments 50 may be refrigerated while other compartments 50 are heated. In yet another embodiment, one or more compartments 50 can be selectively heated or refrigerated.

[0012] The bin 10 includes a chassis 15. As illustrated, the chassis 15 includes a top panel 20, a bottom panel 25, a left-side panel 30, a right side panel 35, an open front face 40 and an open rear face 45. When the rear face 45 is open and uncovered, food items can be inserted by a first operator responsible for initial food preparation into one of the faces 40, 45 and passed through to and removed from the other of the faces 40, 45 by a second operator responsible for final food preparation, for example, a second operator responsible for packaging and customization of a food product for serving to the ultimate customer. In another embodiment, the rear face 45 may

be "closed" and provided by a rear panel such that access into the bin 10 is only provided by the open front face 40. The panels may be insulated to reduce heat transfer between the interior of the bin 10 and the atmosphere surrounding the bin 10.

[0013] The bin 10 illustrated in FIG. 1 is sized, shaped and arranged to have two compartments 50, however, the bin 10 can have any number of compartments 50, including a single compartment 50. For clarity, the two compartments 50 depicted in FIGS. 1-3 are denominated using the letters A and B. The "A" compartment is the top or uppermost compartment 50 and the "B" compartment is the bottom or lower-most compartment 50.

[0014] In the embodiment illustrated in FIG. 1, the top or "A" compartment is defined by the left and right sidewalls 30 and 35, the chassis top panel 20 and a first or upper-most shelf 52. Compartment "B" is defined by the two sidewalls 30 and 35, the first or upper-most shelf 52, and the chassis bottom panel 25. In bin embodiments having only one compartment 50, the single compartment is defined by opposing, left and right sidewalls 30 and 35, a chassis top panel 20 and a chassis bottom panel 25. For brevity, bin construction and operation is described with regard to a bin 10 having two compartments 50 in FIGS. 1-3. However, other embodiments may have more than two compartments 50 or less than two compartments 50. For example, the embodiments illustrated in FIGS. 4A, 4B, 5, and 6 have four compartments 50. Again, other configurations are also possible.

[0015] The shelf 52, which partially defines the compartments 50, is planar or at least substantially planar and supported in the chassis 15 at opposing side ends by the two chassis side walls 30 and 35. The shelf 52 includes a planar and continuous top surface, which forms a planar and continuous bottom surface 53 of the upper compartment 50. The planar and continuous bottom surface 53 of the upper compartment 50 is configured to support food items (as used herein, the term "food item" includes but is not limited to containers or trays containing food products such as cooked protein patties, fried foods, and the like). In the illustrated embodiment, food items can be placed onto the planar and continuous bottom surface 53 and removed from the planar and continuous bottom surface 53 through the open front face 40 or through the open rear face 45. Because the bottom surface 53 is planar and continuous and substantially free of any dividing walls or other structure between the holding zones 57a, 57b, and more particularly

between the food holding bays 51a, 51b, 51c, and 51d, cleaning of the bottom surface 53 can be easily accomplished.

[0016] A face plate or bezel 92 is generally attached to the front of the chassis 15. For example, the bezel can be attached to the sidewalls 30 and 35 of the chassis 15 so as to be disposed underneath a top surface of the shelf 52. In bin embodiments having only one compartment 50, the bezel 92 may be attached to either of the chassis top or bottom panels 20, 25 of the bin 10. In the illustrated embodiment of FIGS. 1-3, the bezel 92 is set forward from the shelf 52 by a space 55. The space 52 forms a slot in which one or more latches 23 translate and/or rotate from a locked/default position to an unlocked position so as to release lids held in lid holding ledges 31 as will be discussed further below.

[0017] The bezels 92 may include information displays and/or controls, which are collectively identified by reference numeral 93. Although the chassis 15 can include panels concealing the heat generating devices located within a shelf, the bezel 92 also can conceal heating elements, which are located within the shelf 52, such that a separate panel is not present.

[0018] Each food holding bay 51a, 51b, 51c, 51d may include a dedicated display and/or control 93a, 93b, 93c, 93d, respectively. While each dedicated display and/or control 93a, 93b, 93c, 93d may display and/or control the temperature within individual food holding bays 51a, 51b, 51c, 51d, the food holding bays within a particular food holding zone (51a and 51b within 57a; 51c and 51d within 57b) have the same temperature setting. The dedicated display and/or controls 93a, 93b, 93c, 93d, may also display additional information about the food item stored in the food holding bay 51a, 51b, 51c, 51d. For example, while the temperature in the first food holding bay 51a and the second food holding bay 51b is the same (because both food holding bays 51a, 51b are located within a single food holding zone 57a), the display and/or control 93a, 93b may indicate that the first food holding bay 51a has a first food item (such as sausage) while the second food holding bay 51b has a second food item (such as eggs). In the embodiment illustrated in FIGS. 1-3, the display and control 93a, 93b, 93c, and 93d can display the particular food item, the temperature setpoint of a respective food holding bay 51a, 51b, 51c, 51d, along with other information about the food item stored in the food holding bay 51a, 51b, 51c, 51d, such as the food holding bay is ready to receive food items, the food items in the food holding

bay should be discarded, the food items in the food holding bay are older and should be used first relative to the same food items contained in another food holding bay, the food items in the food holding bay are newer relative to the same food items contained in another food holding bay such that the food items contained in the other food holding bay should be used first, it is time to cook more food product. Moreover, the heating elements for each food holding zone 57a, 57b can be controlled by the displays and/or controls 93a, 93b, 93c, 93d to maintain the temperature setpoint of the respective food holding zones 57a, 57b. The displays and/or controls 93a, 93b, 93c, 93d may be grouped together (i.e., arranged horizontally beneath the respective food holding bay 51a, 51b, 51c, 51d) in the bezel 92 for a corresponding compartment 50. In the embodiment illustrated in FIGS. 1-3, a single bezel 92 is used to provide the display and/or control elements for two vertically adjacent compartments 50, but of course discrete bezels can also be used. The displays and/or controls 93a, 93b, 93c, 93d thus can provide a user graphical interface to one or more controllers (not shown) for the bin. A temperature control interface panel 95 may also be provided to control the temperatures of the food holding zones 57a, 57b.

[0019] Each food holding bay 51a, 51b, 51c, 51d may be sized to receive an individual food holding tray 27 and lid 21 (see FIG. 2 where the tray 27 is illustrated in broken lines). In order to conveniently store the lid 21, each food holding bay 51a, 51b, 51c, 51d may also include a dedicated lid holding shelf 31 that is sized to receive and store the lid 21 when the lid 21 is desired for use in combination with a food holding tray 27, such as when protein patties are contained within the tray 27. Generally, a top surface 27a of a food holding tray 27, when received in the lid holding shelf 31, is substantially flush with a top surface of the lid holding shelf 31 such that when the tray 27 is disposed in the food holding bay 51c, the tray 27 can be in contact with and engaged by the lid 21 in the lid holding shelf 31 so as to retain moisture within the tray 27-lid 21 assembly. In some embodiments, the lid holding shelf 31 may be provided by formed sheet metal. In other embodiments, the lid holding shelf 31 may be provided by a wire form. Other structures are also possible.

[0020] Adjacent to each lid holding shelf 31 is one or more latches 23 having an open center portion. In the embodiment illustrated in FIGS. 1-3, each food holding zone 57a, 57b includes a single dedicated latch 23 that selectively secures lids 21 in the food holding shelves 31 in each

food holding bay 51a, 51b, 51c, 51d. In the illustrated embodiment, the latches 23 have a round or curved body 29 that is rotatable and/or translatable (because of the open center) about a retaining element such as a pin or screw (not shown). In other embodiments, the latches 23 may have straight or angled outer surfaces that form other shapes, such as a square, a pentagon, a hexagon, or any other polygonal shape. The latches 23 may be disposed adjacent an opening into the food holding compartment 50 above the lid holding shelf 31. In one example, the latches 23 may be captured on a cylindrical retaining element between the chassis 15 and a top of the food holding compartment 50 above the lid holding shelf 31. In other embodiments, one or more washers (not shown), such as metal, nylon, or plastic washers, may be disposed on the cylindrical retaining element to space the latches 23 apart from the bezel 92 and the shelf 52 to prevent metal galling and/or to reduce friction between the latches 23 and the bezel 92 or shelf 52 to ease actuation of the latches 23.

[0021] The round body 29 may be oriented substantially parallel to a front face of the chassis 15 or the bezel 92 in a locked or default position, as illustrated by reference numeral 23a, which prevents inadvertent removal of a lid 21 from the lid holding shelf 31 when a tray 27 is withdrawn. The latch 23 is in its default or locked position simply because of gravity, thus re-positioning the latch to an unlocked state advantageously requires simply overcoming the weight of the latch 23 by translational and/or rotational movement. The round body 29 may be rotated and/or translated upwards relative to the bezel 92 or lid holding shelf 31 from the locked or default position to an unlocked position, as illustrated by the dotted lines referencing latch 23 between food holding bay 51a and food holding bay 51b in FIG. 1; this rotational and/or translational movement of the latch 23 about the retaining element allows facile insertion or removal of a lid 21 to/from the lid holding shelf 31. The round body 29 may be mounted on a retaining element such as a pin or a screw (not shown), which retains the round body 29 and allows the round body 29 to translate along the open center portion and/or to at least partially rotate about the pin when the round body 29 translates. The lid holding shelf 31 also allows the food holding compartment 50 to have the planar and continuous bottom surface 52 by storing the lids 27a in an elevated position, with the lid holding shelf 31 being suspended above the continuous bottom surface 52, typically by fixedly attaching a base of the shelf to a top surface

of the food holding compartment 50 at one or more positions. Such continuous planar and continuous bottom surfaces 52 are much easier to clean than compartmentalized or divided heating chambers. Furthermore, the round body 29 of the latch 23 and the translation/rotation movement of the latch allow easy removal of the lids 27 from the lid holding tray 31 with one hand while positioning the latch 23 to the unlocked position with another hand.

[0022] From a purely functional standpoint, a preferred latch 23 might simply include a locking portion that is able to prevent inadvertent displacement of the lid 21 when the tray 27 is purposefully removed. Thus, a number of different configurations and shapes can be used for the latch 23. The latch 23 illustrated here with the round body 29, on the other hand, has an alternative, ornamental arrangement for the round body 29 in which the edges of the round body 29 include an arc-shaped, curved surface. This illustrated arrangement may add to the cost of manufacture, so the illustrated latch does not provide all of the possible economic advantages that might be derived from the invention. On the other hand, this arrangement is believed to be aesthetically pleasing and is likely to be recognized and relied upon by purchasers to identify the source of the food holding bin.

[0023] FIGS. 4A, 4B, and 5 are perspective views of an alternate embodiment of a multi-zone food holding bin 10, the embodiment of FIGS. 4A, 4B, and 5 including four separate food holding compartments 50. The embodiment of FIGS. 4A, 4B, and 5 is substantially identical to the embodiment of FIGS. 1-3 with the exception that the embodiment of FIGS. 4A, 4B, and 5 includes four food holding compartments 50 instead of two, each food holding compartment 50 including two food holding zones 57a, 57b, and each food holding zone 57a, 57b including a single food holding bay 51a, 51b, respectively. Thus, reference numbers identifying identical elements are the same in FIGS. 1-3 and in FIGS. 4A, 4B, and 5. Moreover, elements not illustrated in one of the embodiments are understood to be present in the other embodiment. For example, the embodiment illustrated in FIGS. 4A, 4B, and 5 includes cut-away views showing internal components that are not visible in FIGS. 1-3. Nevertheless, these internal components are understood to be present in the embodiment illustrated in FIGS. 1-3 as well.

[0024] Similar to the embodiment of FIGS. 1-3, each separate food holding compartment 50 in the food holding bin 10 of FIGS. 4A, 4B, and 5 includes at least two separate food holding

zones, a first food holding zone 57a and a second food holding zone 57b. Each food holding zone 57a, 57b is configured to maintain a different temperature. Of course, it is not necessary for the food holding zones 57a, 57b to be operated at different temperatures in practice.

[0025] The bin 10 illustrated in FIG. 4A is sized, shaped and arranged to have four compartments 50, however, bins in accordance with the disclosure can have any number of compartments, including a single compartment.

[0026] In FIG. 4, the first or top compartment is defined by the left and right sidewalls 30 and 35, the chassis top panel 20 and the first or upper-most shelf 52. The second compartment is defined by the two sidewalls 30 and 35, the shelf 52 for the first compartment and the second shelf 52. The third compartment is defined by the two sidewalls 30, 35, the second shelf 52 and the third shelf 52. The fourth compartment is defined by the two sidewalls 30 and 35, the third shelf and the chassis bottom 25.

[0027] The shelves 52, which partially define the compartments 50, are planar or at least substantially planar and supported in the chassis 15 at their opposing side ends by the two chassis side walls 30 and 35. Each shelf 52 forms a planar and continuous top surface, which defines a planar and continuous bottom surface 53 of the compartment 50. The planar and continuous bottom surface 53 of the compartment is configured to support food items (as mentioned above, the term "food item" includes but is not limited to containers or trays containing food products such as cooked protein patties, fried foods, and the like). Food items can be placed onto the planar bottom surface 53 and removed from the planar bottom surface 53 through the open front face 40 or through the open rear face 45.

[0028] Each food holding bay 51a, 51b may include a dedicated display and/or control 93a, 93b, respectively. Each display and/or control 93a, 93b may display the temperature setpoint of a respective food holding bay 51a, 51b, and in the embodiment illustrated in FIGS. 4A, 4B, and 5, the temperature of a respective food holding zone 57a, 57b. Moreover, each display and/or control 93a, 93b may control the respective heating elements that maintain the temperature setpoint of the respective food holding zones 57a, 57b. The displays and/or controls 93a, 93b may be grouped together (i.e., arranged horizontally beneath the respective food holding bay

51a, 51b) in the bezel 92 for a corresponding compartment 50. In the embodiment illustrated in FIGS. 4A, 4B, and 5, a single bezel 92 is used to provide the display and/or control elements for a single compartment 50. The displays and/or controls 93a, 93b can provide a graphical user interface to one or more controllers (not shown) for the bin 10.

[0029] Bin 10 control and control of the food holding zone 51 temperature is effectuated in part by using one or more microcontrollers or microprocessors 97 in combination with temperature sensors 99. US 2011-0114624 A1 entitled "Food Holding Cabinet Power Supplies with Downloadable Software," the entirety of which is hereby incorporated by reference herein, discloses among other things, apparatuses and methods by which compartments of a food holding bin can be controlled using microprocessors having downloadable software. Compartment temperature control is preferably effectuated using a semiconductor temperature sensor, thermally coupled to each food holding zone 51 and electrically connected to a processor, such as those disclosed in US 2011-0114624 A1.

[0030] A semiconductor apparatus and method for measuring temperature of a plate or shelf in a food holding bin is disclosed in U.S. pat. No. 8,247,745, which is entitled "Temperature Sensor for a Food Holding Cabinet" the entirety of which is hereby incorporated by reference herein.

[0031] The shelf 52 includes a lower heating element 67 for the first food holding zone 57a in a first or top food holding compartment 50, and an upper heating element 65 for a second food holding zone 57b in a second or lower food holding compartment 50, directly below the first food holding compartment 50. While the first heating element 67 is illustrated as providing heat to the upper first food holding zone 57a (from below) and the second heating element 65 is illustrated as providing heat to the lower first food holding zone 57a (from above), heating elements that are not shown include at least a heating element that provides heat to the upper first food holding zone 57a from above and another heating element that provides heat to the lower first food holding zone 57a from below. Additionally, the second food holding zones 57b, which are adjacent to the first food holding zones 57a, are heated in the same way as the first food holding zones 57a, but with independent heating elements. The heating elements of the second food holding zones 57b are independently controllable from the heating elements of the first food holding zones 57a. Referring to the inset FIG. 4B, the shelf 52 includes an upper thermally

conductive plate, which forms the continuous planar bottom surface 53 of the first (or upper) food holding compartment 50 and a lower thermally conductive plate, which forms a continuous planar upper surface 54 of the second (or lower) food holding compartment 50. The planar bottom surface 53 and the planar upper surface 54 are spaced apart from each other by a distance sufficient to accommodate the inclusion of at least two heating elements, which are illustrated in the figures as the separate first heating element 67 and the separate second heating element 65, respectively. Again, the temperature of each food holding zone is controlled by independently controllable heating elements. Insulative materials may be provided between the first heating element 67 and the second heating element 65 to provide better thermal control over the food holding zones 57a, 57b. The first heating element 67 is a lower heating element for the upper food holding compartment 50 and the second heating element 65 is an upper heating element for the lower food holding compartment 50.

[0032] The continuous planar bottom surface 53 of the top food holding compartment 50 and the continuous planar upper surface 54 of the bottom food holding compartment are preferably made of aluminum, between about one-eighth and about one-quarter inch-thick. Alternate embodiments of the shelf 52 may use a thermally-conductive panel made of glass-ceramic or an ultra-low expansion glass for one or both of the lower surface 53 and the upper surface 54. Glass-ceramics and ultra-low expansion glass are considered herein to be "good" thermal conductors in that their conduction of heat energy is localized. Such materials also make excellent shelves for a heated, multi-zone food holding bin because they permit localized areas of a shelf to be heated to a first temperature, without having the entire shelf reach the same temperature.

[0033] The first heating element 67 is disposed between the planar bottom surface 53 and the planar upper surface 54 and the first heating element 67 is in thermal communication with the planar bottom surface 53. The first heating element 67 may be mechanically attached to the planar bottom surface 53 by a thermally-conductive adhesive, in one embodiment. The first heating element 67 may also be attached to the planar bottom surface 53 by brackets or clamps.

[0034] The second heating element 65 is disposed between the planar bottom surface 53 and the planar upper surface 54 and the second heating element 65 is in thermal communication with

the planar upper surface 54. The second heating element 65 may be mechanically attached to the planar upper surface 54 by a thermally-conductive adhesive, in one embodiment. The second heating element 65 may also be attached to the planar upper surface 54 by brackets or clamps.

[0035] In the embodiment illustrated in FIGS. 4A, 4B, and 5, the first heating element 67 can be located above the second heating element 65 but in thermal communication with the planar bottom surface 53 such that when the temperature of the first heating element 67 rises, it provides heat energy into the planar bottom surface 53 in a region around the first heating element 67, and more specifically, within the first food holding zone 57a of the first or top food holding compartment 50. Thermally insulating the first heating element 67 from the planar upper surface 54 and thermally insulating the second heating element 65 from the planar bottom surface 53, enables the first heating element 67 to provide a first amount of heat energy into the planar bottom surface 53 (and thus into the first food holding zone 57a of the upper food holding compartment 50), while the second heating element 65 provides a second amount of heat energy into the planar upper surface 54 (and thus into the first food holding zone 57b of the lower food holding compartment 50). In this manner, each food holding zone 57a, 57b may be configured to have an independent and unique temperature profile from top to bottom of the food holding zone 57a, 57b. For example, one food holding zone 57a, 57b may have a temperature profile that generally decreases from top to bottom (i.e., the top of the food holding zone 57a, 57b is hotter than the bottom of the food holding zone 57a, 57b).

[0036] In some embodiments, the second heating element 65 may comprise a radiant heating source that projects radiant heat through the planar upper surface 54 and into the first food holding zone 57a of the lower food holding compartment 50. In other words, in one embodiment, the first heating element 67 provides heat energy into the first food holding zone 57a of the upper food holding compartment 50 through conduction, while the second heating element 65 provides heat energy into the first food holding zone 57a of the lower food holding compartment through radiation. Similarly, a radiant heating element may be provided at a top interior surface of the first or top food holding compartment 50 beneath the chassis top panel 20. In this manner, the top and bottom of a food product placed into the first food holding zone 57a may absorb different amounts of heat energy, customized depending on the type of food product. Thus, the

heat profile in the first food holding zone 57a may be customized vertically as well as differentiated from the heat profile in the second food holding zone 57b. As a result, a single food holding compartment 50 (e.g., the upper compartment in FIGS. 4A and 5) may be customized to store different types of food products in the first food holding zone 57a and the second food holding zone 57b, each food holding zone 57a, 57b having a different temperature profile. As a result, the disclosed food holding bin 10 is flexible in that it can keep multiple different types of food products at their ideal holding temperatures in a single food holding compartment, thus increasing efficiency and adaptability to different food demands.

[0037] Because of this flexibility, it has been found that a food holding bin constructed in accordance with the disclosure can extend the palatability time of a food item by a factor of two or more.

[0038] An alternate embodiment, as illustrated in FIG. 6, may use the thermoelectric effect provided by one or more Peltier devices 80 to heat one or more of the compartments 50.

[0039] The thermoelectric effect is a direct conversion of a temperature difference into an electric voltage and vice versa. When a voltage is applied to a thermoelectric device, a temperature difference is created across the two sides of the device. The temperature difference created in response to an applied voltage is known as the Peltier effect. Devices that produce temperature differences in response to an applied voltage are considered herein to be Peltier devices. A Peltier device 80 is therefore considered herein to be a heat source or heating element.

[0040] Peltier devices have a "cold" side and a "hot" side. The cold side absorbs heat whereas the hot side emits heat. Heat emitted from the hot side includes at least some of the heat absorbed from the cold side. A Peltier device 80 is therefore considered herein to be a solid-state heat pump or heat-sinking device.

[0041] FIG. 6 is a cutaway view of another embodiment of a point-of-use holding bin using Peltier devices to heat the food holding compartments 50. In one embodiment, one or more Peltier devices 80 are "sandwiched" between, and in thermal communication with the bottom planar surface 53 and the upper planar surface 54 described above. Electrical energy is provided to the Peltier devices 80 through wires 85, under the control of a controller.

[0042] "Sandwiching" the Peltier devices in a shelf 52 as shown in FIG. 6 provides a shelf 52 cold on one side and hot on the other. Such a shelf 52 structure thus enables a dual-mode food holding bin 10 having a "first" food holding compartment 50 that is warm and a vertically adjacent "second" food holding compartment 50 that is cold.

[0043] Temperature control of a thermoelectric, Peltier device 80 may be accomplished by controlling the electric energy provided to the device. Temperature control of one side of the Peltier device 80 can also be effectuated by controlling heat transferred into or out of the opposite side of the device, as described in US 2010-0307168 A1, entitled "Thermo Electric Cooler," the disclosure of which is incorporated herein by reference in its entirety.

[0044] In another embodiment of a multi-zone food holding bin 10, multiple Peltier devices 80 are mounted between the bottom surface 53 and the upper surface 54 but have only their hot sides thermally coupled to the bottom surface 53 and to the upper surface 54. Air is then moved through the inter-plate space to heat the cool sides of the Peltier devices therein.

[0045] Peltier devices as disclosed herein and similar heat transfer devices are thermally coupled to the shelf 52, preferably by way of mechanical attachment to at least one of the plates that form the lower planar surface 53 and the upper planar surface 54. Mechanical attachment and the resultant thermal coupling is preferably accomplished by a thermally-conductive adhesive, however, clamps that are attached to a plate by screws driven into a plate can also be used.

[0046] The shelves are mechanically coupled to the side panels 30 and 35. The side panels are also preferably made from thermally-conductive material such as aluminum. Thermally coupling a heat transfer device to one or more plates that comprise a shelf therefore also thermally couples the heat transfer device to the side walls and thus to the compartment. Heat transfer devices coupled to a shelf are therefore also thermally coupled to the corresponding compartment.

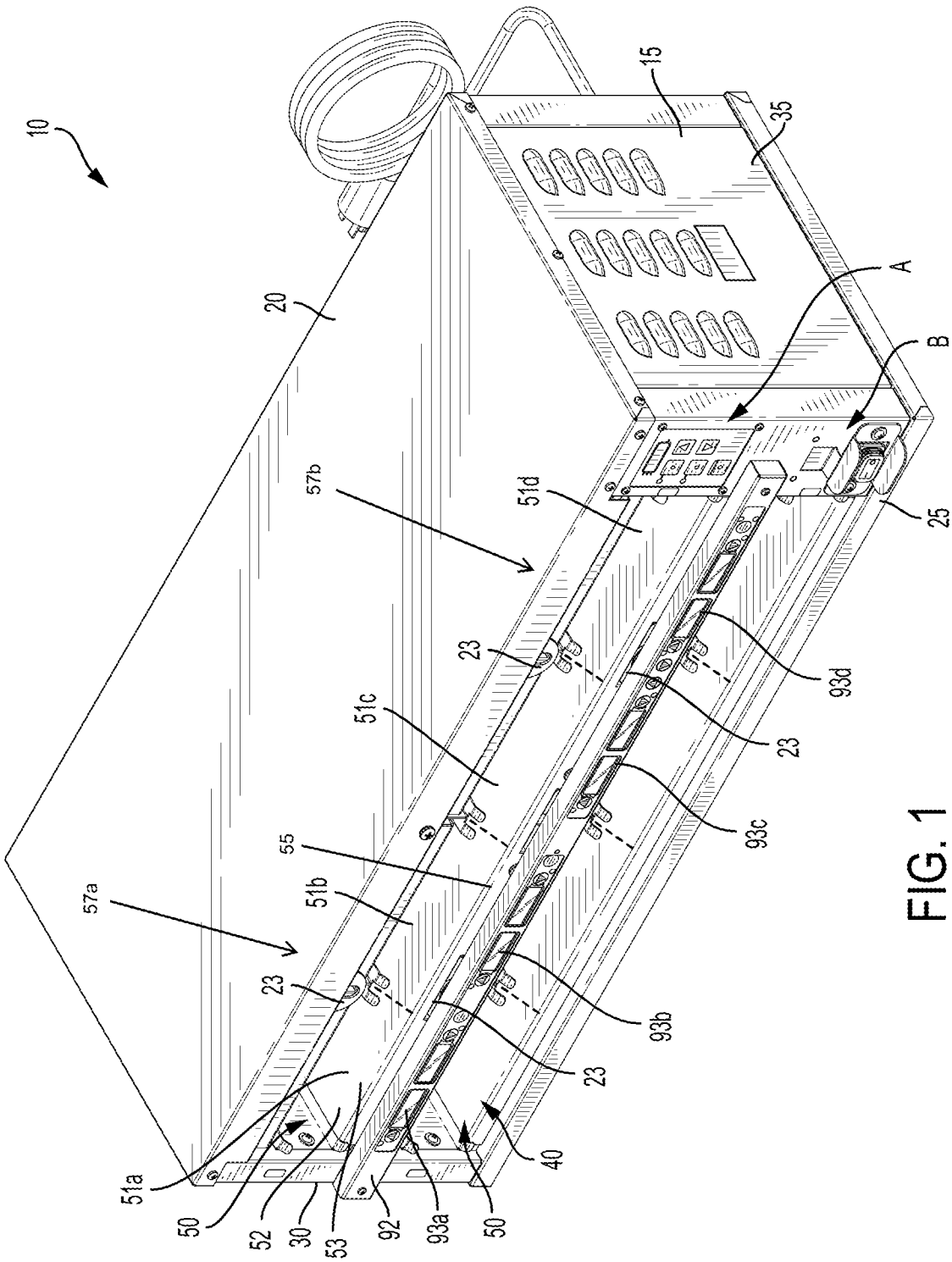
[0047] While the temperature of a Peltier device can be controlled by controlling the heat dissipated from the hot side and/or the heat absorbed into the cold side, bin embodiments disclosed herein preferably control compartment temperature using one or more semiconductor temperature sensors, thermally coupled to one or more of the thermally-conductive structures

that comprise a compartment. Bin embodiments disclosed herein preferably use a semiconductor temperature sensor that is directly coupled and therefore thermally coupled to the heated surfaces 53 and/or 54 provided by the shelves 52.

[0048] Semiconductor temperature sensors used in preferred embodiments disclosed herein are disclosed in U.S. Pat. No. 8,247,745, which is entitled "Temperature Sensor for a Food Holding Cabinet" the entirety of which is hereby incorporated by reference herein, especially the teachings of the structure and use of a semiconductor temperature sensor.

[0049] Thus, suitable heating elements for use in accordance with the disclosure include electrically-resistive heating elements, such as heated coils, radiant heating elements that provide heat energy via radiation, and devices and ancillary equipment that provide heat to a working fluid. As described above, Peltier devices may also be used as heating elements in accordance with the disclosure.

[0050] The foregoing description is for purposes of illustration only and not for purposes of limitation. The true scope of the invention is set forth by the appended claims.


10
15
35
20
A
B
25
57b
51d
23
93d
51c
23
93c
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52
30
53
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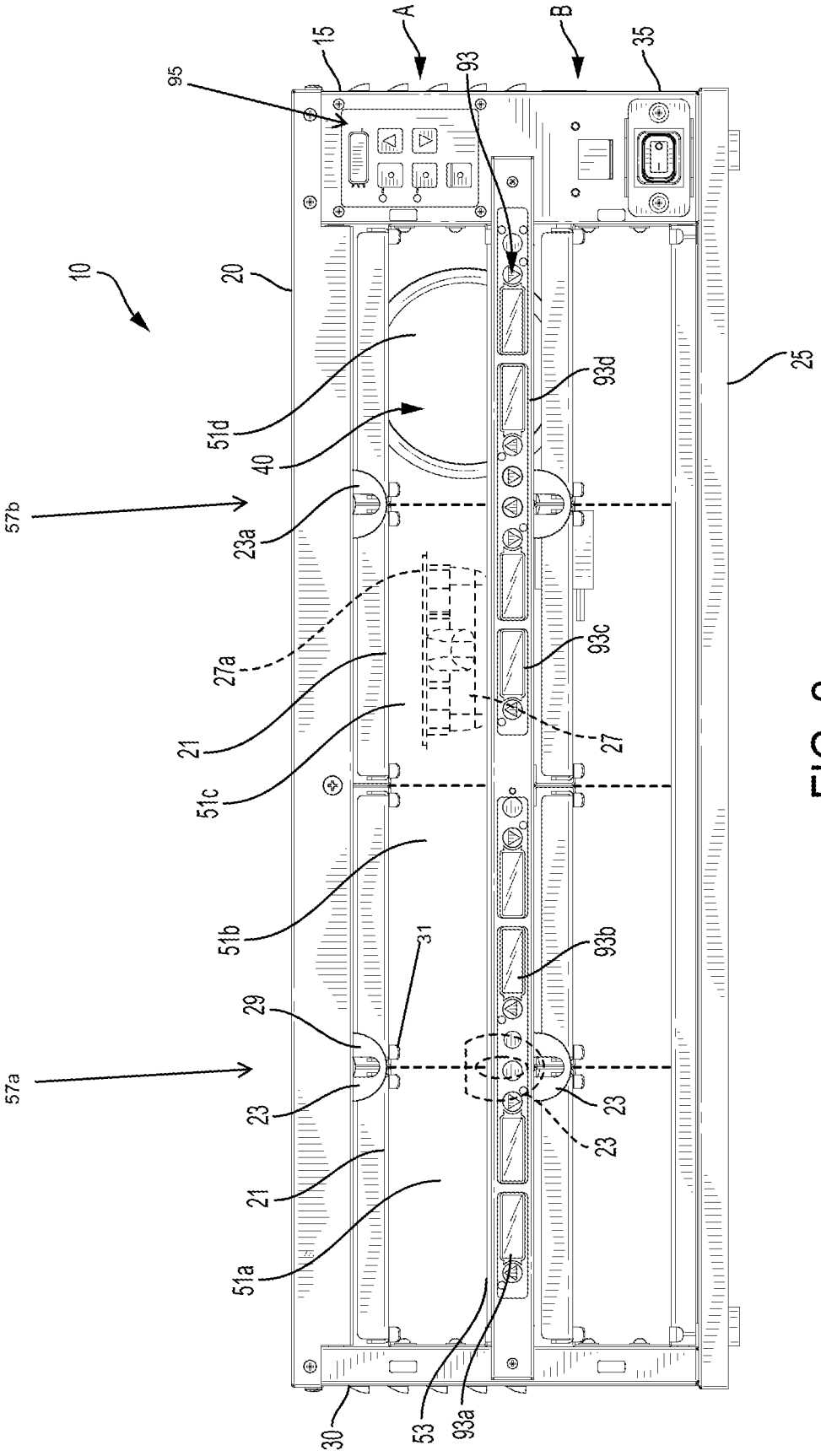
93a
50

FIG. 1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15
A
B
35
95
93
20
25
51d
40
93d
57b
23a
27a
93c
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51a
30
53
93a

FIG. 2

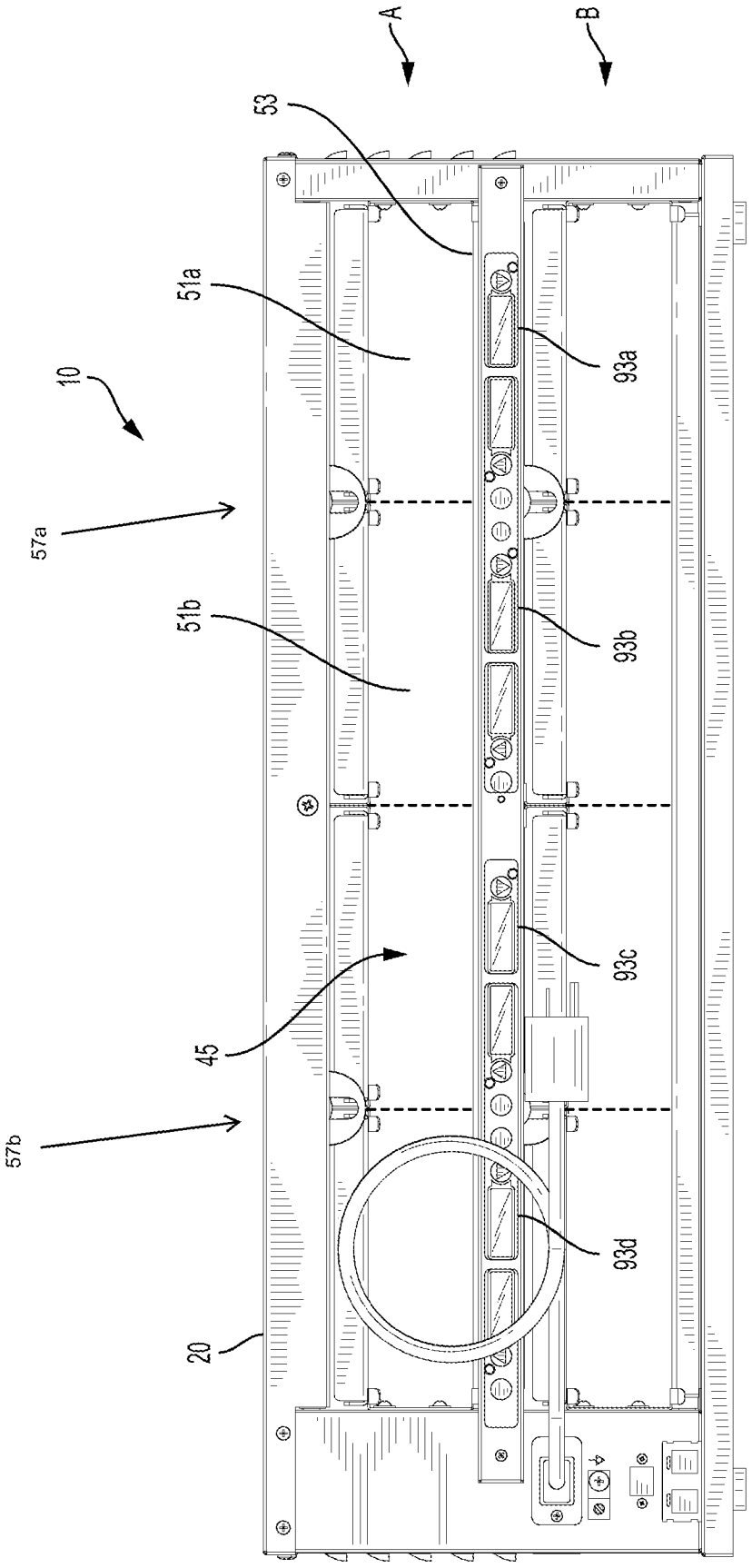
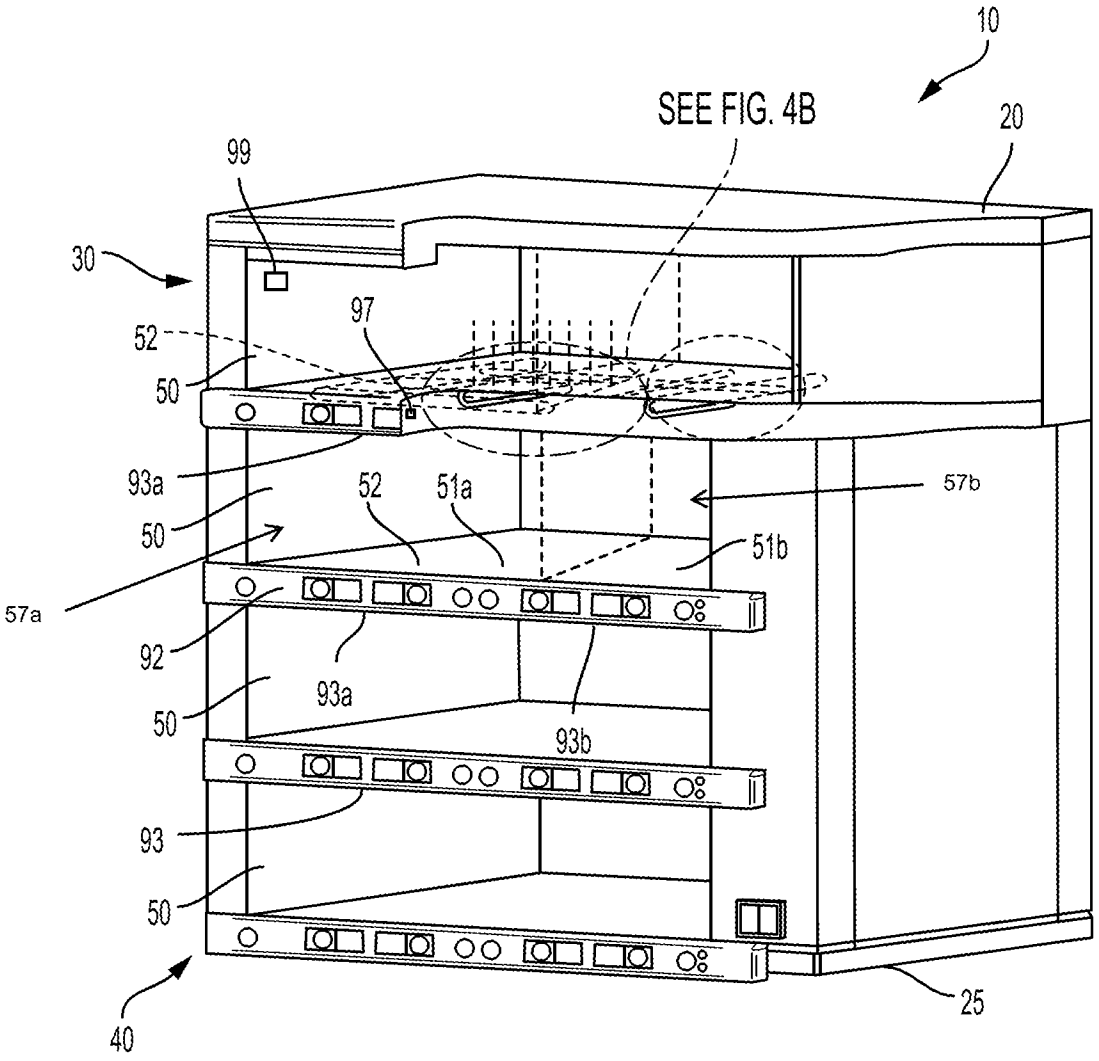


FIG. 3


10
SEE FIG. 4B
20
99
30
97
52
50
93a
52
51a
57b
50
51b
57a
92
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93b
93
50
40
25

FIG. 4A

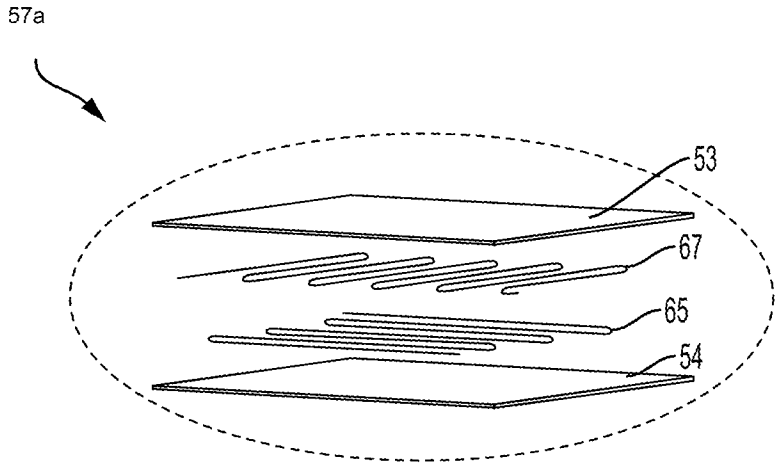
57a
53
67
65
54

FIG. 4B

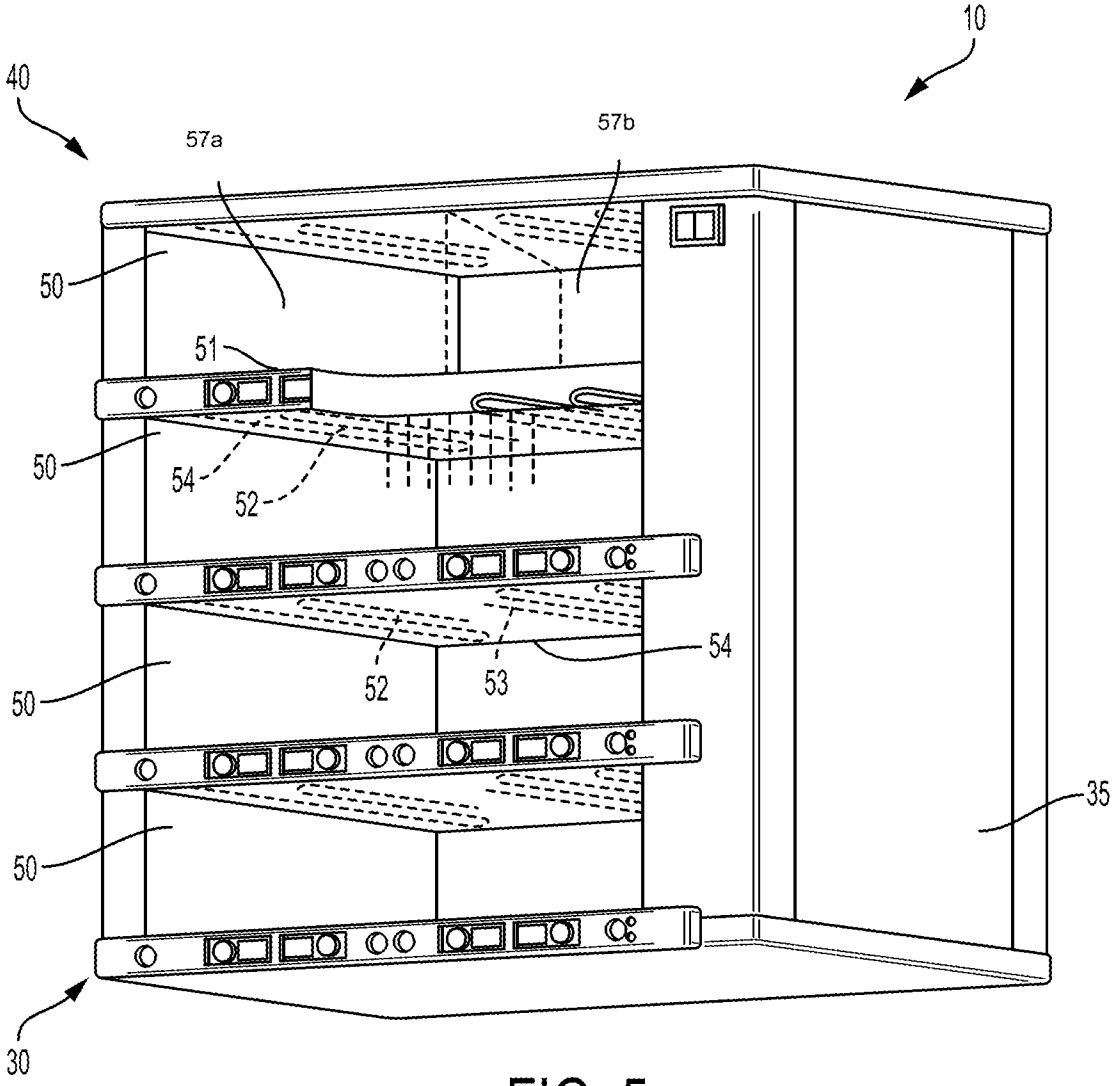

FIG. 5

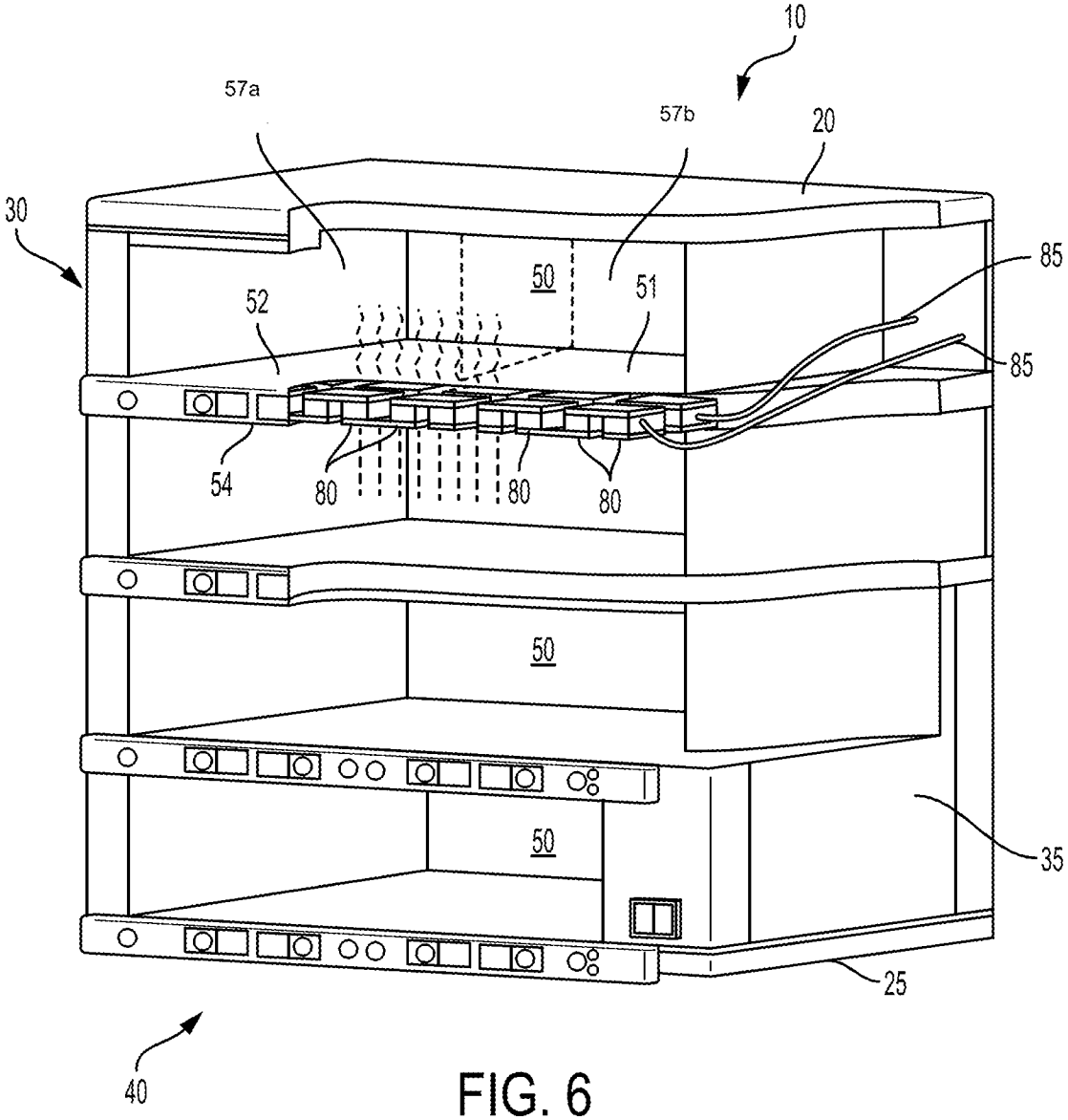

FIG. 6

Attorney Docket No. 29178/507366CON
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:
Kyle Thomas Kestner et al.

Continuation of USSN 15/134,380 — Confirmation No.: Not Yet Assigned

Filed: Concurrently Herewith — Art Unit: Not Yet Assigned

For: MULTI-ZONE FOOD HOLDING BIN — Examiner: Not Yet Assigned

INFORMATION DISCLOSURE STATEMENT (IDS)

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Pursuant to 37 C.F.R. §§ 1.56, 1.97, and 1.98, the attention of the United States Patent and Trademark Office is hereby directed to the references listed on the attached PTO/SB/08. It is respectfully requested that the information be expressly considered during the prosecution of the above-identified application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

Applicant encloses herewith a completed Form PTO SB08 listing documents for the examiner's consideration. The applicant respectfully requests that all of the listed documents, including those cited in the parent application, be expressly considered. Accordingly, entry and consideration of all of the listed documents are respectfully solicited.

In accordance with 37 C.F.R. §1.98(d), copies of the listed documents are not enclosed because they were previously cited by or submitted to the Patent Office in a prior application (U.S. Patent Application No. 15/134,380) upon which applicant relies for an earlier effective filing date under 35 U.S.C. §120.

The Director is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which should have been filed herewith (or with any paper hereafter filed in this application by this firm) to our Deposit Account No. 13-2855, under Order No. 29178/50736CON.

Dated: May 21, 2018

Respectfully submitted,

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