ALLNAMES:(Caja Elastic Dynamic Solutions Ltd.)

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1. WO/2022/038579 AUTOMATIC WAREHOUSE AND A METHOD FOR MANAGING AN AUTOMATIC WAREHOUSE BASED ON POPULARITY OF ITEMS — WO - 24.02.2022

Int.Class B65G 1/137 Appl.No PCT/IB2021/057706 Applicant CAJA ELASTIC DYNAMIC SOLUTIONS LTD Inventor DELLA TORRE, Reuven

An automated warehouse that may include a storage configured to store multiple items, wherein the multiple items are stored in item containers; a plurality of picking stations that comprise an asynchronous picking station and a synchronous picking station; one or more robots that are configured to convey item containers to the plurality of picking stations; and at least one computerized system configured to control the conveying of the item containers based on a popularity of items included in the item containers.

2. 20170121114 SYSTEMS AND METHODS FOR MODULAR STORAGE AND MANAGEMENT — US - 04.05.2017

Int.Class B65G 1/137 Appl.No 15318082 Applicant CAJA ELASTIC DYNAMIC SOLUTIONS LTD. Inventor Omer Einav

Systems and methods for a modular warehouse system comprising: at least two modular stackable bins wherein said bins does not require structural support and may allow retrieval of at least one of said bins, regardless of its location in the pile, without changing said pile's order; at least two bin retrieval robots; at least one non-transitory computer-readable medium storing processor executable instructions on a computing device for warehouse management.

3. 3154884 SYSTEMS AND METHODS FOR MODULAR STORAGE AND MANAGEMENT — EP - 19.04.2017

Int.Class B65G 57/00 Appl.No 15805862 Applicant CAJA ELASTIC DYNAMIC SOLUTIONS LTD Inventor EINAV OMER

Systems and methods for a modular warehouse system comprising: at least two modular stackable bins wherein said bins does not require structural support and may allow retrieval of at least one of said bins, regardless of its location in the pile, without changing said pile's order; at least two bin retrieval robots; at least one non-transitory computer-readable medium storing processor executable instructions on a computing device for warehouse management.

4. WO/2019/123254 WAREHOUSE MANAGEMENT, A ROBOT AND AN ADAPTOR — WO - 27.06.2019

Int.Class B65G 1/04 Appl.No PCT/IB2018/060261 Applicant CAJA ELASTIC DYNAMIC SOLUTIONS LTD Inventor GLASS, Guy

A method for retrieving content stored in a warehouse, the method may include: maintaining first content in boxes of a lowest shelf of a storage unit of the warehouse, while maintaining in boxes of higher shelves of the storage unit second content that is of less interest than the first content; accessing the boxes of the lowest shelf and providing the boxes to interfacing units, by a first robot; accessing the boxes of the higher shelves and providing the boxes to the interfacing units, by a second robot; wherein the first robot, when positioned at a lower position, is lower than a height of the lowest shelf; and wherein the second robot is higher than the height of the lowest shelf.

5. 249473 SYSTEMS AND METHODS FOR MODULAR STORAGE AND MANAGEMENT — IL - 31.01.2017

Int.Class B65D 21//02 Appl.No 249473 Applicant CAJA Elastic Dynamic Solutions Ltd Inventor

6. 20210090001 WAREHOUSE MANAGEMENT, A ROBOT AND AN ADAPTOR — US - 25.03.2021

Int.Class G06Q 10/08 Appl.No 16954496 Applicant CAJA ELASTIC DYNAMIC SOLUTIONS LTD Inventor Guy Glass

A method for retrieving content stored in a warehouse, the method may include: maintaining first content in boxes of a lowest shelf of a storage unit of the warehouse, while maintaining in boxes of higher shelves of the storage unit second content that is of less interest than the first content; accessing the boxes of the lowest shelf and providing the boxes to interfacing units, by a first robot; accessing the boxes of the higher shelves and providing the boxes to the interfacing units, by a second robot; wherein the first robot, when positioned at a lower position, is lower than a height of the lowest shelf; and wherein the second robot is higher than the height of the lowest shelf.

7. 2902217 SISTEMAS Y MÉTODOS PARA EL ALMACENAMIENTO Y LA GESTIÓN MODULAR — ES - 25.03.2022

Int.Class B65G 57/00 Appl.No 15805862 Applicant Caja Elastic Dynamic Solutions Ltd. Inventor EINAV, Omer

Un sistema modular de almacén que comprende: - al menos dos contenedores modulares apilables [135, 305, 310, 800], en donde cada contenedor [135, 305, 310, 800] comprende medios de unión horizontal y vertical para la unión del contenedor [135, 305, 310, 800] a sus contenedores circundantes [135, 305, 310, 800], de modo que dichos contenedores [135, 305, 310, 800] no requieren soporte estructural y pueden permitir la recuperación de un contenedor [135, 305, 310, 800] independientemente de su ubicación en la pila y sin cambiar el orden de dicha pila, de manera que dicho sistema modular de almacén no requiere estanterías; - al menos dos robots de recuperación de contenedores [210] adaptados para recuperar y colocar los contenedores en las pilas; - al menos dos carros [145, 205] para transportar los contenedores de una ubicación a otra, en donde los carros o los robots que actúan como carros de recuperación de contenedores se proporcionan para recibir los contenedores de los robots de recuperación de contenedores y realizar el

transporte de una ubicación a otra; - un dispositivo informático para la gestión del almacén; - al menos un medio legible por ordenador no transitorio que almacena las instrucciones ejecutables del procesador en el dispositivo informático para la gestión del almacén, adaptado para: gestionar el inventario de dicho almacén; gestionar dichos al menos dos robots de recuperación de contenedores y el tráfico de dichos al menos dos carros; y permitir al usuario simular escenarios relacionados con dicho sistema de almacén y presentar los resultados de dichas simulaciones a dicho usuario a través de una interfaz del usuario.

8. **WO/2015/189850** SYSTEMS AND METHODS FOR MODULAR STORAGE UNITS AND HANDLING — WO - 17.12.2015

Int.Class B65G 57/00 **Appl.No** PCT/IL2015/050594 **Applicant** CAJA ELASTIC DYNAMIC SOLUTIONS LTD. **Inventor** EINAV, Omer

Systems and methods for A modular stackable bin comprising: at least one attaching mechanism wherein said mechanism allow said bin to be attached to at least one neighboring bin; wherein said attached bins does not require structural support and may allow retrieval of at least one of said bins, regardless of its location in the pile, without changing said pile's order.

9. **WO/2015/189849** SYSTEMS AND METHODS FOR MODULAR STORAGE AND MANAGEMENT — WO - 17.12.2015

Int.Class B65G 57/00 **Appl.No** PCT/IL2015/050593 **Applicant** CAJA ELASTIC DYNAMIC SOLUTIONS LTD. **Inventor** EINAV, Omer

Systems and methods for a modular warehouse system comprising: at least two modular stackable bins wherein said bins does not require structural support and may allow retrieval of at least one of said bins, regardless of its location in the pile, without changing said pile's order; at least two bin retrieval robots; at least one non-transitory computer-readable medium storing processor executable instructions on a computing device for warehouse management.

10. **3728079** WAREHOUSE MANAGEMENT, A ROBOT AND AN ADAPTOR — EP - 28.10.2020

Int.Class B65G 1/04 **Appl.No** 18890828 **Applicant** CAJA ELASTIC DYNAMIC SOLUTIONS LTD **Inventor** GLASS GUY

A method for retrieving content stored in a warehouse, the method may include: maintaining first content in boxes of a lowest shelf of a storage unit of the warehouse, while maintaining in boxes of higher shelves of the storage unit second content that is of less interest than the first content; accessing the boxes of the lowest shelf and providing the boxes to interfacing units, by a first robot; accessing the boxes of the higher shelves and providing the boxes to the interfacing units, by a second robot; wherein the first robot, when positioned at a lower position, is lower than a height of the lowest shelf; and wherein the second robot is higher than the height of the lowest shelf.

11. **WO/2021/144768** HANDLING GARMENTS IN AN AUTOMATED WAREHOUSE — WO - 22.07.2021

Int.Class G06F 7/00 **Appl.No** PCT/IB2021/050324 **Applicant** CAJA ELASTIC DYNAMIC SOLUTIONS LTD. **Inventor** GLASS, Guy

A method for retrieving garments within an automatic warehouse, the method may include maintaining sets of garments in enclosures, the enclosures are positioned on shelfs of the automatic warehouse; wherein each set of garments is located within an enclosure of the enclosures, and is hung on hangers located within the enclosure; accessing a selected enclosure of the enclosures, by a first robot, wherein the selected enclosure encloses a garment of interest; obtaining the selected enclosure by the first robot; and providing the enclosure to an interface point within the automatic warehouse, by the first robot.

12. **WO/2020/250101** METHODS AND SYSTEMS FOR PATH PLANNING IN A KNOWN ENVIRONMENT — WO - 17.12.2020

Int.Class G06F 17/10 **Appl.No** PCT/IB2020/055345 **Applicant** CAJA ELASTIC DYNAMIC SOLUTIONS LTD **Inventor** DELLA TORRE, Reuven

Systems and methods for path planning by creating a three dimensional weighted graph representing a physical area wherein the third dimension comprise planes, wherein each plane represents a time unit, further wherein nodes can be connected only between different planes.

13. **288757** METHODS AND SYSTEMS FOR PATH PLANNING IN A KNOWN ENVIRONMENT — IL - 01.02.2022

Int.Class B25J 9//16 **Appl.No** 288757 **Applicant** CAJA Elastic Dynamic Solutions Ltd **Inventor**

14. **3983913** METHODS AND SYSTEMS FOR PATH PLANNING IN A KNOWN ENVIRONMENT — EP - 20.04.2022

Int.Class G06F 17/10 **Appl.No** 20823043 **Applicant** CAJA ELASTIC DYNAMIC SOLUTIONS LTD **Inventor** DELLA TORRE REUVEN

Systems and methods for path planning by creating a three dimensional weighted graph representing a physical area wherein the third dimension comprise planes, wherein each plane represents a time unit, further wherein nodes can be connected only between different planes.

15. **275416** WAREHOUSE MANAGEMENT, A ROBOT AND AN ADAPTOR — IL - 30.07.2020

Int.Class B25J 09/16 **Appl.No** 275416 **Applicant** Caja elastic dynamic solutions Ltd **Inventor** GUY GLASS