

[SS 10] (vertical 3D oven) AND (infrared 4W (burn+ OR heat+))

Results in EPODOC 4

[SS 11] ..ti ab pn li

Unknown command or preparation. [More info](#) *ERROR(-104000)*

[SS 11] ..li pn ab ti



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PN - [CN105058651](#) A 20151118

AB - A **vertical** heating **oven** is mainly composed of a transmission motor, a worktable, large transmission sprockets, **infrared heating** pipes, transmission hanging frames, an oven body and a transmission chain. The oven body is formed by welding steel plates and lined with heat-preservation cotton, the large transmission sprockets are installed at the top end and the bottom of the oven body, and the worktable is installed outside the oven body. The transmission motor is installed on the outer side of the bottom of the oven body. The upper and lower large transmission sprockets are connected through the transmission chain. The transmission hanging frames are installed on the transmission chain. The **infrared heating** pipes are installed on the inner wall of the oven body. The product is reasonable and compact in structure. The site space is saved to the maximum extent due to the vertical structure design. The **vertical** heating **oven** is convenient to move. The heating pipes are installed on the lateral surfaces, thereby being convenient to maintain and replace and being capable of balancing the heat energy inside the oven. The heating efficiency is higher than that of a common oven, the needed power is only 1/3 that of traditional equipment, and the use efficiency and heating quality are effectively improved.

TI - **Vertical** heating **oven**

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PN - [CN201332972Y](#) Y 20091028

AB - The utility model relates to a **vertical** type electric **oven** which comprises a metal **oven** body; a **vertical** rotational tray frame and an **infrared** electric **heating** tube are arranged in the **oven** body; the **vertical** rotational tray frame comprises two sprocket shafts, two groups of sprockets, chains, and suspended baskets, wherein, the sprockets are arranged on the sprocket shafts, the chains are arranged on the sprockets, and the suspended baskets are arranged on the chains; the sprocket shafts are driven by a motor; an observation window and an integral sliding door are arranged on the front surface of the oven body; a discharge flue for communicating the inner part and the outer part of the oven body is arranged; an integrated circuit board and a manual function control switch component are arranged on the oven body; the observation window is double-layer hollow insulation glass which is fixedly connected with an oven body plate in a sealing manner; both the oven body plate and a sliding door plate are provided with hollow structures; high temperature

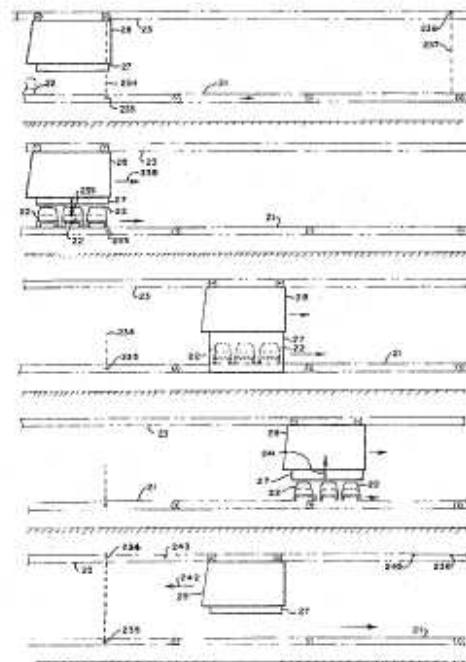
resistant insulation materials are filled in the oven door plate and the sliding door plate; two sides of the bottom of the sliding door are movably connected with the oven body through a tension spring; a movable catching disk is arranged on a base plate of the oven body; a thermal insulation storage chamber and a foot jogging control switch are arranged at the lower part of the oven body; and a lighting lamp is arranged at the top of the inner side of the oven body. The **vertical** type electric **oven** has the advantages that the clearness of the observation window can be retained all along, the observation window is safe and reliable when in use, the oven body has a good insulation effect, and the oven is easy to clean.

TI - **Vertical** type electric **oven**

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PN - [US4228345](#) A 19801014

AB - A traveling oven system is adapted for use synchronously with an extrinsic conveyor, particularly for shrink wrapping purposes by heating an object such as a pallette, package, or other article of manufacture covered by a polyethylene film bag to shrink the bag about the same. The system includes a bell-type oven having a housing with side wall portions, front and rear wall portions, and a top wall, being open at the lower end and having **infrared heating** panels on predetermined wall portions. The oven is supported above the conveyor by a tram carried by a gantry extending along the conveyor for **vertical** movement of the **oven** with respect to the conveyor and also for horizontal movement in forward and reverse directions along a reach of the conveyor. A vertical drive is included for vertically reciprocally moving the oven between an upper position with the lower end of the oven above objects at least partially enclosing such objects for heating thereof. A horizontal drive is provided for horizontally moving the oven in



forward and reverse directions.
 A control circuit causes the horizontal drive to move the oven forward in synchronism with the conveyor while causing the vertical drive to move the oven down to the lower position for heating of such objects and thereafter to move it to the upper position. The control circuit then causes the horizontal drive to move the oven in the reverse direction to turn it to a starting position for heating of further items upon the conveyor.

TI - Traveling infrared bell oven system

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PN - [JPH06184343](#) A 19940705

AB - PURPOSE:To provide a sheet of improved surface smoothness, by performing the thermal expansion of an electron-beam-cross-linkable and expandable polyolefinic resin sheet by heating by means of an **infrared heater** and hot air under conditions such that the heating by the **infrared heater** prevails over that by hot air.
 CONSTITUTION:A composition prepared by mixing a PP-based polyolefinic resin with specified amounts of additives such as an antioxidant is extrusion- molded into a sheet by the T-die process or the like. This sheet is irradiated with electron beams to form an expanded resin sheet having a gel fraction of 40% or above and a specified thickness. The obtained sheet is introduced into a **vertical** foaming **oven** heated by means of two opposed **infrared heaters** of a surface temperature of 260-270 deg.C and hot air having a temperature of 240-250 deg.C at the inlet of the oven and expanded to obtain a crosslinked foamed polyolefinic resin sheet having a skin layer on the surface, excellent surface smoothness and an apparent density of 0.040-0.100g/cm³.

TI - CROSSLINKED FOAMED POLYOLEFINIC RESIN SHEET AND ITS PRODUCTION