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(54) Title of the invention : TEMPERATURE-CONTROLLED LUNCH BOX

<p>(51) International classification :A23F 030600, A45C 112000, A45C 130200, A61K 450600, F25D 110200</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : <b>1)Chitkara University</b> Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----</p> <p><b>2)Chitkara Innovation Incubator Foundation</b> Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : <b>1)SINGLA, Anshu</b> Address of Applicant :CSE, CUIET, Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----</p> <p><b>2)JAIN, Arsh</b> Address of Applicant :CSE, CUIET, Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----</p> <p><b>3)CHOPRA, Aryan</b> Address of Applicant :CSE, CUIET, Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----</p>
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(57) Abstract :

A temperature-controlled lunch box (100) comprising a housing (102) to store food items and a heating unit (120) to heat the stored food items. The housing (102) comprises a plurality of compartments (104), a plurality of separating walls (106), a lid (108), and an insulating wall (110). The plurality of compartments (104) stores food items separately. The plurality of separating walls (106) prevents heat transfer between the plurality of compartments (104). The lid (108) keeps food items within each compartment (104). The insulating wall (110) retard heat transfer into and out of the housing (102) and keeps food items warm for a longer time. The heating unit (120) comprises a plurality of heating elements (122) that emit heat energy to heat stored food items in the housing (102) and a temperature control unit (124) to control the heating of the stored food items in the housing (102).

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