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(21) International Application Number: PCT/US98/22036 (22) International Filing Date: 16 October 1998 (16.10.98) (30) Priority Data: 08/954,644 20 October 1997 (20.10.97) US (71) Applicant: COLDWAVE SYSTEMS, L.L.C. [US/US]; 157 Langley Road, Newton Center, MA 02159 (US). (72) Inventor: GRAHAM, B., Eric; 157 Langley Road, Newton Center, MA 02159 (US). (74) Agents: SAMPSON, Richard, L. et al.; Sampson & Associates, P.C., Suite 519, 50 Congress Street, Boston, MA 02109 (US).		(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG). Published <i>With international search report.</i> (88) Date of publication of the international search report: 8 July 1999 (08.07.99)

(54) Title: METHOD AND APPARATUS FOR SHIPPING SUPER FROZEN MATERIALS

(57) Abstract

A system for freezing products or materials to a super-frozen state, storing them until shipment and shipping them in a super-frozen state. The apparatus consists of two self-contained, super-insulated (2) containers. The first apparatus has at least two compartments, one for freezing and one for storage. The product or material to be frozen is placed in the freezing compartment and frozen to a super-frozen state and then transferred to the storage compartment where it is stored until shipment. The second apparatus is a self contained super-insulated (2) shipping container. When shipment is to be effected, product or material is transferred from a storage compartment of the first apparatus in a super-frozen state to the second or shipping apparatus. The doors (5) of the shipping apparatus are closed and the self-contained, super-insulated (2) apparatus containing super-frozen product or material is shipped to a remote venue.

