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(71) Applicant: TIPA CORP. LTD [IL/IL]; 3 Hanagar St., 4501306 Hod Hasharon (IL).

(72) Inventors: NISSENBAUM, Daphna; 13 Hakerem st., 4593000 Ramot Ha'shavim (IL). NEUMAN, Tal; 7 Habanim st., 4593000 Ramot Ha'shavim (IL). PELLED, Dori; 29 HaShachar St., 4532570 Hod HaSharon (IL). GARTY, Shai; 17 Leib Pinsker St., 7630825 Rehovot (IL). KONIECZNY, Nili; 14 Anatot St., 6908014 Tel Aviv (IL).

(74) Agents: GORDON, Irit et al.; Pearl Cohen Zedek Latzer Baratz, P.O. Box 12704, 4673339 Herzliya (IL).

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(54) Title: BIODEGRADABLE SHEET

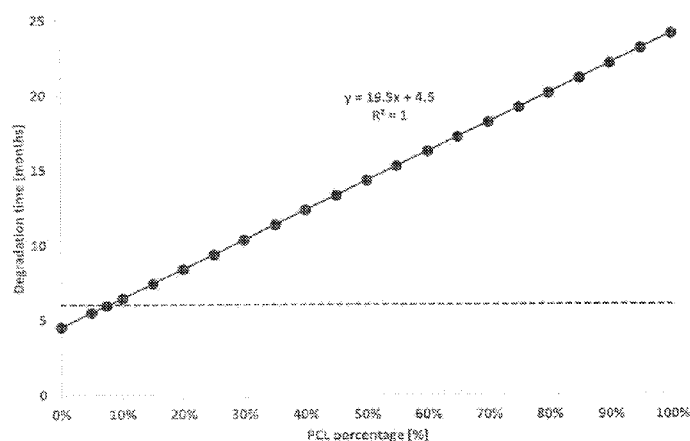


Figure 4

(57) Abstract: Disclosed is a biodegradable sheet comprising at least one layer which is a direct contact layer, intended to successfully contact materials, such as liquids, while maintaining the mechanical properties of the sheet and to extend the biodegradable sheet shelf life. The direct contact layer may comprise a hydrophobic polymer selected from poly(epsilon-caprolactone) (PCL) polyhydroxybutyrate (PHB), Polydioxanone (PDO) polyglycolic acid (PGA), polybutylene succinate (PBS), polybutylene succinate adipate (PBS A), poly lactic acid (PL A), polybutylene adipate terphthalate (PBAT), polyhydroxyalkanoates (PHA), such as polyhydroxybutyrates (PHB), polyhydroxyvalerates (PHV), and polyhydroxybutyrate-hydroxyvalerate copolymers (PHBV) or any mixture thereof. The biodegradable sheet may further comprise surface treated nanoclay particles, PVOH grafted with a crosslinker and PBS or PBS A. The biodegradable sheet may further include at least one metalized, biodegradable, laminate layer.