



(51) International Patent Classification:

B29B 17/02 (2006.01) **G06Q 10/00** (2012.01)
B07C 5/34 (2006.01)

(21) International Application Number:

PCT/EP2021/082315

(22) International Filing Date:

19 November 2021 (19.11.2021)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

20209008.0 20 November 2020 (20.11.2020) EP
20216014.9 21 December 2020 (21.12.2020) EP

(71) Applicant: **BASF SE** [DE/DE]; Carl-Bosch-Strasse 38,
67056 Ludwigshafen am Rhein (DE).

(72) Inventors: **TUERKOGLU, Gazi**; Carl-Bosch-Strasse 38,
67056 Ludwigshafen (DE). **LEED, Marina Grace Dick-**
ens; Carl-Bosch-Strasse 38, 67056 Ludwigshafen (DE).
KELLER, Wilhelm; Pfalzgrafenstraße 1, 67061 Lud-
wigshafen (DE). **SOLFRANK, Martina**; Carl-Bosch-
Strasse 38, 67056 Ludwigshafen (DE). **KELLER, Robert**
Anthony; 42 Acorn Dr., Summit, New Jersey 07901
(US). **REICH, Oliver**; Carl-Bosch-Strasse 38, 67056 Lud-

wigshafen (DE). **LEINO CALLEJA, David**; Leningrad-
skiy prospekt, 37A, bld. 4, Moscow, 125167 (RU). **HOH,**
Li Noi Lilian; Carl-Bosch-Strasse 38, 67056 Ludwigshafen
(DE). **KUHN, Oliver**; Rue du Pont 17, 6582 Rosport
Luxembourg (FR). **SATHYANARAYANA, Shyam Sun-**
dar; Carl-Bosch-Strasse 38, 67056 Ludwigshafen (DE).
PAHNKE, Kai; Carl-Bosch-Strasse 38, 67056 Lud-
wigshafen (DE). **ELTZE, Tobias**; Carl-Bosch-Strasse 38,
67056 Ludwigshafen (DE). **BEIL, Christian**; Carl-Bosch-
Strasse 38, 67056 Ludwigshafen (DE).

(74) Agent: **BASF IP ASSOCIATION**; BASF SE GBI - C006,
67056 Ludwigshafen (DE).

(81) Designated States (*unless otherwise indicated, for every
kind of national protection available*): AE, AG, AL, AM,
AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ,
CA, CH, CL, CN, CO, CR, CU, CZ, DE, DJ, DK, DM, DO,
DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN,
HR, HU, ID, IL, IN, IR, IS, IT, JO, JP, KE, KG, KH, KN,
KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD,
ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO,
NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW,
SA, SC, SD, SE, SG, SK, SL, ST, SV, SY, TH, TJ, TM, TN,
TR, TT, TZ, UA, UG, US, UZ, VC, VN, WS, ZA, ZM, ZW.

(54) Title: COMPUTER-IMPLEMENTED METHOD FOR SORTING OF PLASTIC COMPOUNDS

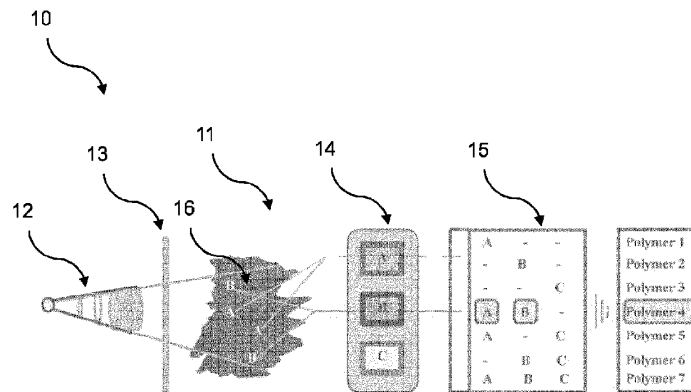


Figure 2

(57) Abstract: Computer-implemented method for controlling sorting of plastic compounds, comprising the steps of: providing a computer-based database comprising entries on a plurality of markers each identifying a specific plastic compound (S100); receiving scan data from a sample of a plastic compound (S200); identifying a marker in the sample of the plastic compound based on the received scan data and the plurality of markers of the database (S300); sorting of plastic compounds based on the identified marker of the sample of the plastic compound (S400).

[Continued on next page]

(84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, ST, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN, TD, TG).

Declarations under Rule 4.17:

— *of inventorship (Rule 4.17(iv))*

Published:

— *with international search report (Art. 21(3))*