

(51) International Patent Classification:

E01C 23/14 (2006.01) E01C 23/00 (2006.01)

(21) International Application Number:

PCT/US2023/019044

(22) International Filing Date:

19 April 2023 (19.04.2023)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

17/735,361 03 May 2022 (03.05.2022) US

(71) Applicant: AMERICAN ASPHALT RECYCLING SOLUTIONS, INC. [US/US]; 10632 Cardinal Lane, Brecksville, OH 44141 (US).

(72) Inventor: BENEDETTI, Angelo; 10632 Cardinal Lane, Brecksville, OH 44141 (US).

(74) Agent: SPIEGEL, H., Jay; H. Jay Spiegel & Associates, P.O. Box 11, Mount Vernon, VA 22121 (US).

(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, CV, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IQ, IR, IS, IT, JM, JO, JP, KE, KG,

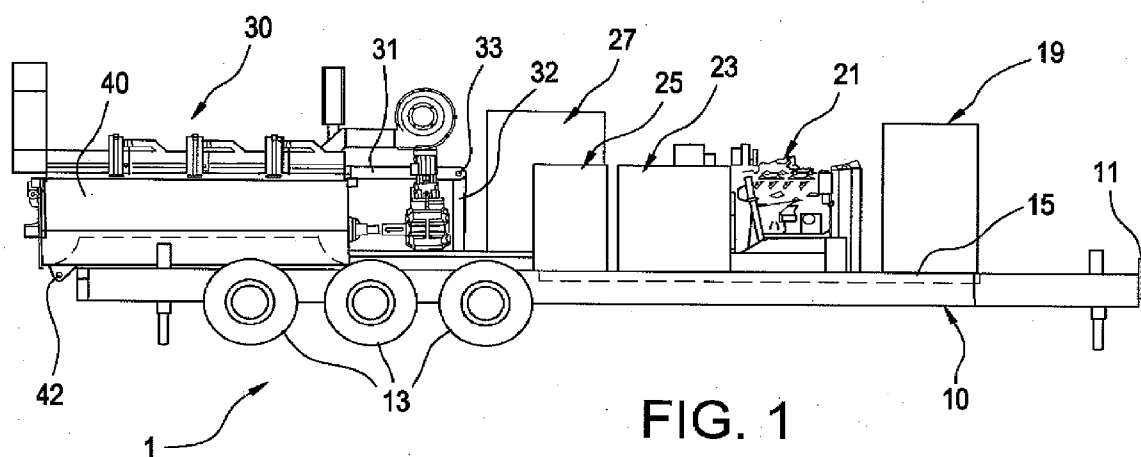
KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, MG, MK, MN, MU, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, SC, SD, SE, SG, SK, SL, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, WS, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, CV, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SC, 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, ME, 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).

Published:

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

(54) Title: MOBILE ASPHALT RECYCLING APPARATUS AND METHOD OF USING



(57) Abstract: A mobile asphalt recycling apparatus facilitates recycling pavement to restore it to its original formula. The apparatus includes augers with transfer paddles, sizing paddles, and tumbling paddles which combine together to allow recycled materials to be thoroughly mixed and then applied on a road surface. The apparatus includes computerized aspects that permit accurate measurement of batch sizes, temperature, and other criteria. The present invention also includes a process which utilizes the apparatus. The process includes sampling and testing the existing pavement, restoring it to the original criteria, and facilitating repaving.