

Information on Search Strategy - Pilot phase (see OJ 2015, A86)

The type of information contained in this sheet may change during the pilot for improving the usefulness of this new service.

Application Number

PCT/US2017/054816

TITLE: LAUNDRY DETERGENT COMPOSITION

APPLICANT: THE PROCTER & GAMBLE COMPANY

IPC CLASSIFICATION: C11D1/02, C11D3/20, C11D17/06, C11D3/386

EXAMINER: Marttin, Emmeline

CONSULTED DATABASES: EPODOC, WPI

CLASSIFICATION SYMBOLS DEFINING EXTENT OF THE SEARCH:

IPC:

CPC: C11D1/02, C11D3/2086, C11D17/06, C11D3/38609

FI/F-TERMS:

KEYWORDS OR OTHER ELEMENTS FEATURING THE INVENTION:

A solid free flowing particulate laundry detergent composition comprising: (a) anionic deterative surfactant; (b) from 0-8 wt% zeolite builder; (c) from 0-4 wt% phosphate builder; (d) from 0-8 wt% sodium carbonate; (e) from 0-8 wt% sodium silicate; (f) from 4-20 wt% organic acid (pref. citric acid); and (g) a variant of the wild-type amylase from Bacillus sp. which has at least 90% identity for amino acid sequence SEQ ID NO:6, and which comprises one or more mutations at positions 9, 26, 30, 33, 82, 37, 106, 118, 128, 133, 149, 150, 160, 178, 182, 186, 193, 195, 202, 214, 231, 256, 257, 258, 269, 270, 272, 283, 295, 296, 298, 299, 303, 304, 305, 311, 314, 315, 318, 319, 320, 323, 339, 345, 361, 378, 383, 419, 421, 437, 441, 444, 445, 446, 447, 450, 458, 461, 471, 482 and/or 484, preferably that also contain the deletions of D183* and G184, wherein the composition at 1 wt% dilution in deionized water at 20°C, has an equilibrium pH in the range of from 6.5 to 9.0.