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(71) Applicant (for all designated States except US): **INTEL CORPORATION** [US/US]; 2200 Mission College Boulevard, Santa Clara, CA 95052 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **MALTSEV, Alexander** [RU/RU]; Verhne-Pecherskaya Street, 1-7, Nizhny Novgorod, 603163 (RU). **SADRI, Ali** [US/US]; 11835 Carmel Mountain Road, Suite 1304-360, San Diego, CA 92128 (US). **POLDIN, Oleg** [RU/RU]; Minina Street, 27-56, Nizhny Novgorod, 603155 (RU). **MALTSEV Jr, Alexander** [RU/RU]; Verhne-Pecherskaya Street, 1-7, Nizhny Novgorod, 603163 (RU). **PURTSEZOV, Sergey** [RU/RU]; Petrishcheva Str., 12-b - 66, Dzerzhinsk, Nizhegorodskaya oblast, 606037 (RU).

(74) Agents: **STEFFEY, Charles E.** et al.; Schwegman, Lundberg, Woessner & Kluth, P.A., P.O. Box 2938, Minneapolis, MN 55402 (US).

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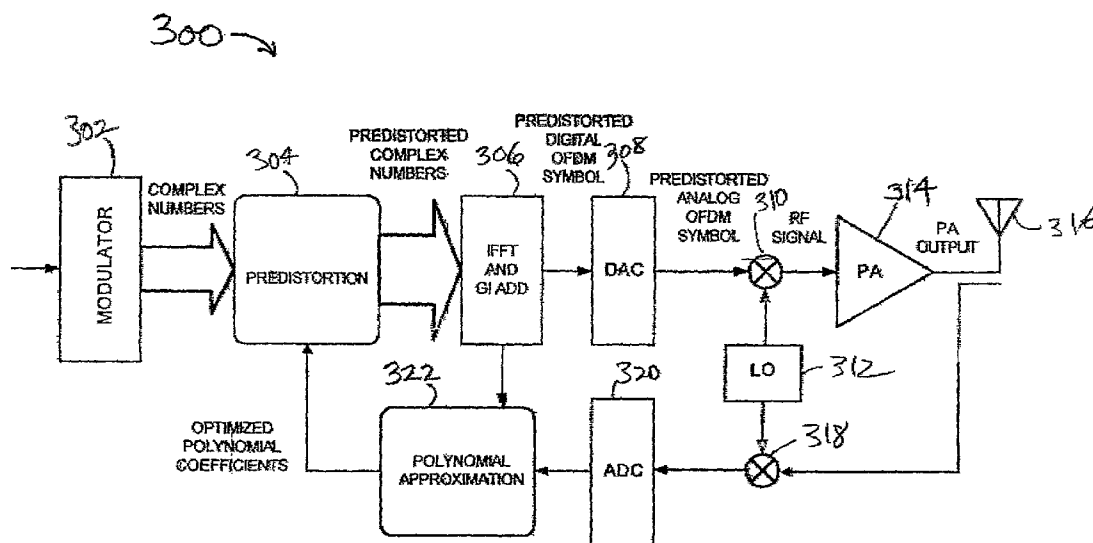
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(54) Title: POWER AMPLIFIER LINEARIZATION METHODS AND APPARATUS USING PREDISTORTION IN THE FREQUENCY DOMAIN



(57) Abstract: To mitigate the effects of non-linear amplification in a digital transmission system employing orthogonal frequency division multiplexing, predistortion of an input signal to a power amplifier with a non-linear transfer characteristic is performed in the frequency domain by modifying frequency-domain symbols used to modulate individual sub-carriers. The frequency-domain symbols are modified in a manner that compensates for the amplifier's non-linear transfer characteristic.

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