

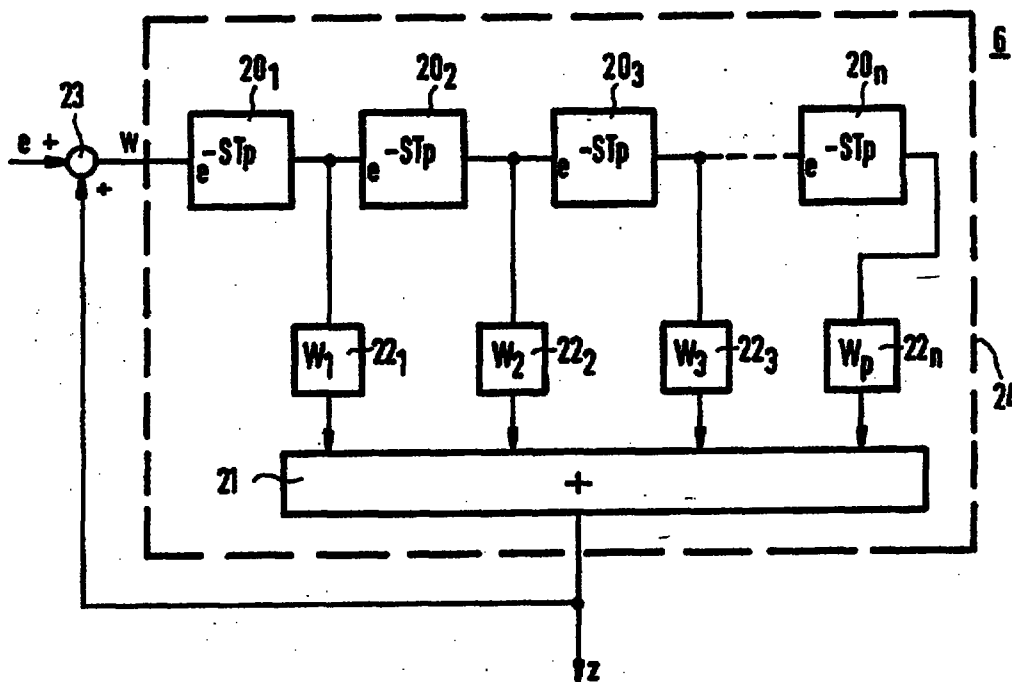


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| (71) Applicant: PHILIPS ELECTRONICS N.V. [NL/NL]; Groenewoudseweg 1, NL-5621 BA Eindhoven (NL).                                                                   |  |                                                                                                                                                                                           |                                                               |
| (71) Applicant (for SE only): PHILIPS NORDEN AB [SE/SE]; Kottbygatan 5, Kista, S-164 85 Stockholm (SE).                                                           |  |                                                                                                                                                                                           |                                                               |
| (72) Inventors: STEINBUCH, Maarten; Groenewoudseweg 1, NL-5621 BA Eindhoven (NL). SCHOOTSTRA, Gerrit; Groenewoudseweg 1, NL-5621 BA Eindhoven (NL).               |  |                                                                                                                                                                                           |                                                               |
| (74) Agent: FAESSEN, Louis, M., H.; Internationaal Octrooibureau B.V., P.O. Box 220, NL-5600 AE Eindhoven (NL).                                                   |  |                                                                                                                                                                                           |                                                               |

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(54) Title: FILTER, REPETITIVE CONTROL SYSTEM AND LEARNING CONTROL SYSTEM BOTH PROVIDED WITH SUCH FILTER



## (57) Abstract

Disclosed are repetitive control systems (Fig. 2) and learning control systems (Fig. 4) using filters (24) composed of delay circuits (20) and having parameters resulting in a very high loop gain for only specific frequencies. This results in a substantial reduction of periodic disturbances with frequencies corresponding to those specific frequencies. The parameters of the filters (24) are selected such that the robustness for frequency-variations in the periodic disturbances.