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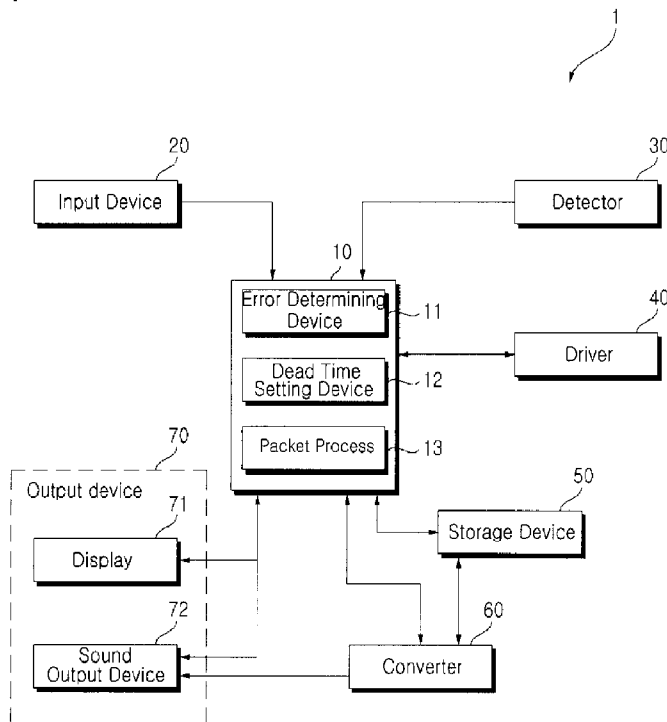
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(54) **Title:** HOME APPLIANCE AND HOME APPLIANCE SYSTEM

[Fig. 3]



(57) **Abstract:** A home appliance and home appliance system are provided which enable a portable terminal not to recognize an acoustic signal sound corresponding to product information output by the home appliance as noise. Thus, the acoustic signal corresponding to product information output by the home appliance may be transmitted to a service center through the portable terminal. The home appliance may include a controller that sets a dead time at a predetermined interval of time with respect to a signal corresponding to product information to avoid a noise detection section of a portable terminal, a converter that converts the signal into an acoustic signal of a predetermined band, and a sound output device that outputs the acoustic signal as sound.

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B. FIELDS SEARCHED

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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Korean utility models and applications for utility models

Japanese utility models and applications for utility models

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

eKOMPASS(KIPO internal) & Keywords: home appliance, Inter-Frame Space(IFS), packet, frame, sound;

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	KR 10-0406094 B1 (KABUSHIKI KAISHA TOSHIBA) 15 November 2003 See abstract, claims 1-10 and figures 1 & 4.	1-20
A	KR 10-0564761 B1 (ELECTRONICS AND TELECOMMUNICATIONS RESEARCH INSTITUTE) 27 March 2006 See all documents.	1-20
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A	KR 10-2004-0095017 A (LG ELECTRONIC INC.) 12 November 2004 See all documents.	1-20

 Further documents are listed in the continuation of Box C. See patent family annex.

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