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(54) **APPARATUS, MEDIUM, AND METHOD SEGMENTING VIDEO SEQUENCES BASED ON TOPIC**

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(57) **ABSTRACT**

Provided are an apparatus, medium, and method segmenting video sequences based on a topic. The apparatus may include a start-shot determination unit detecting a plurality of key-frames by using character information from video sequences including a plurality of frames to determine the detected key-frames as start-shots for each topic, and a topic list creation unit creating a topic list by using the start-shots for each topic.
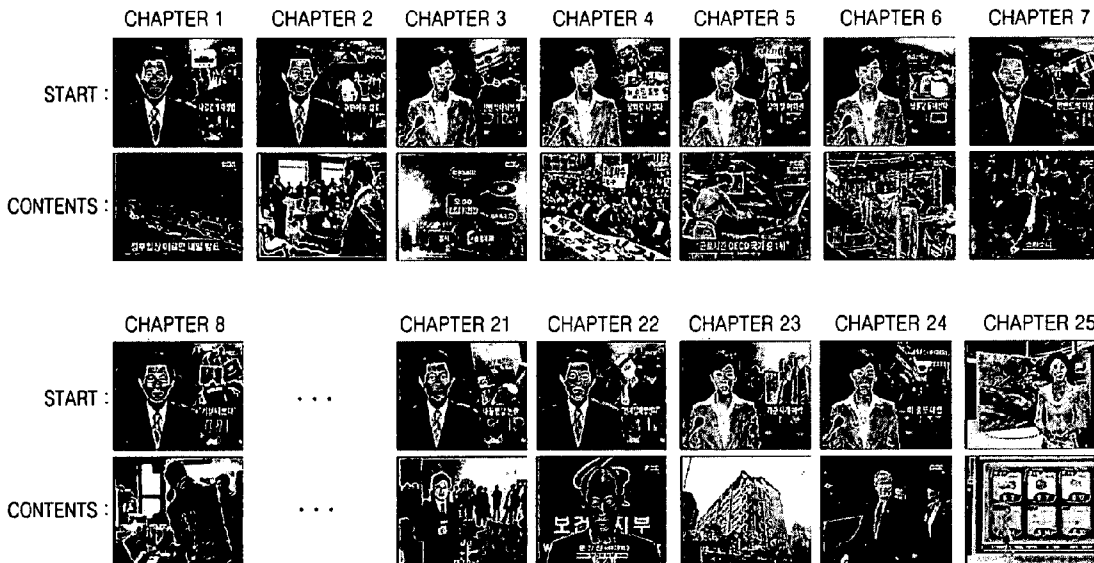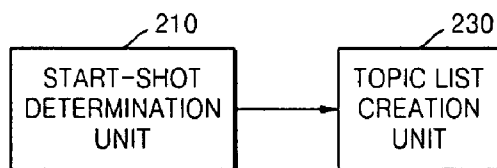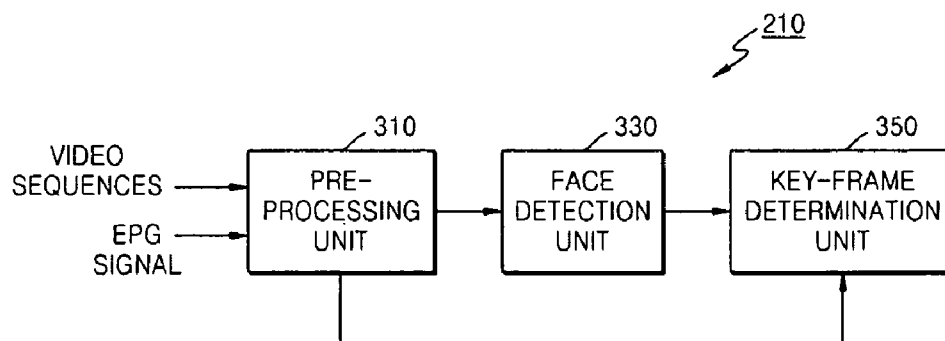
FIG. 1

FIG. 2

```
        ┌─210                        ┌─230
┌──────────────────┐      ┌──────────────────┐
│   START-SHOT     │      │   TOPIC LIST     │
│  DETERMINATION   │─────▶│    CREATION      │
│      UNIT        │      │      UNIT        │
└──────────────────┘      └──────────────────┘
```

FIG. 3

```
                                            ┌─210

            ┌─310              ┌─330                ┌─350
VIDEO     ┌──────────┐      ┌──────────┐      ┌──────────────┐
SEQUENCES─│   PRE-   │      │   FACE   │      │  KEY-FRAME   │
          │PROCESSING│─────▶│DETECTION │─────▶│DETERMINATION │
  EPG   ──│   UNIT   │      │   UNIT   │      │     UNIT     │
 SIGNAL   └──────────┘      └──────────┘      └──────────────┘
               │                                     ▲
               └─────────────────────────────────────┘
```

FIG. 4A

FIG. 4B

FIG. 4C

FIG. 5

DOCKET ALARM
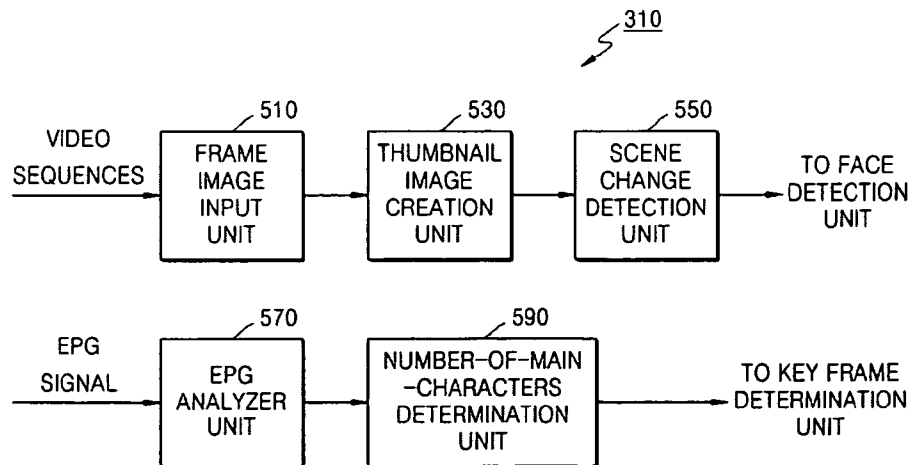
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