

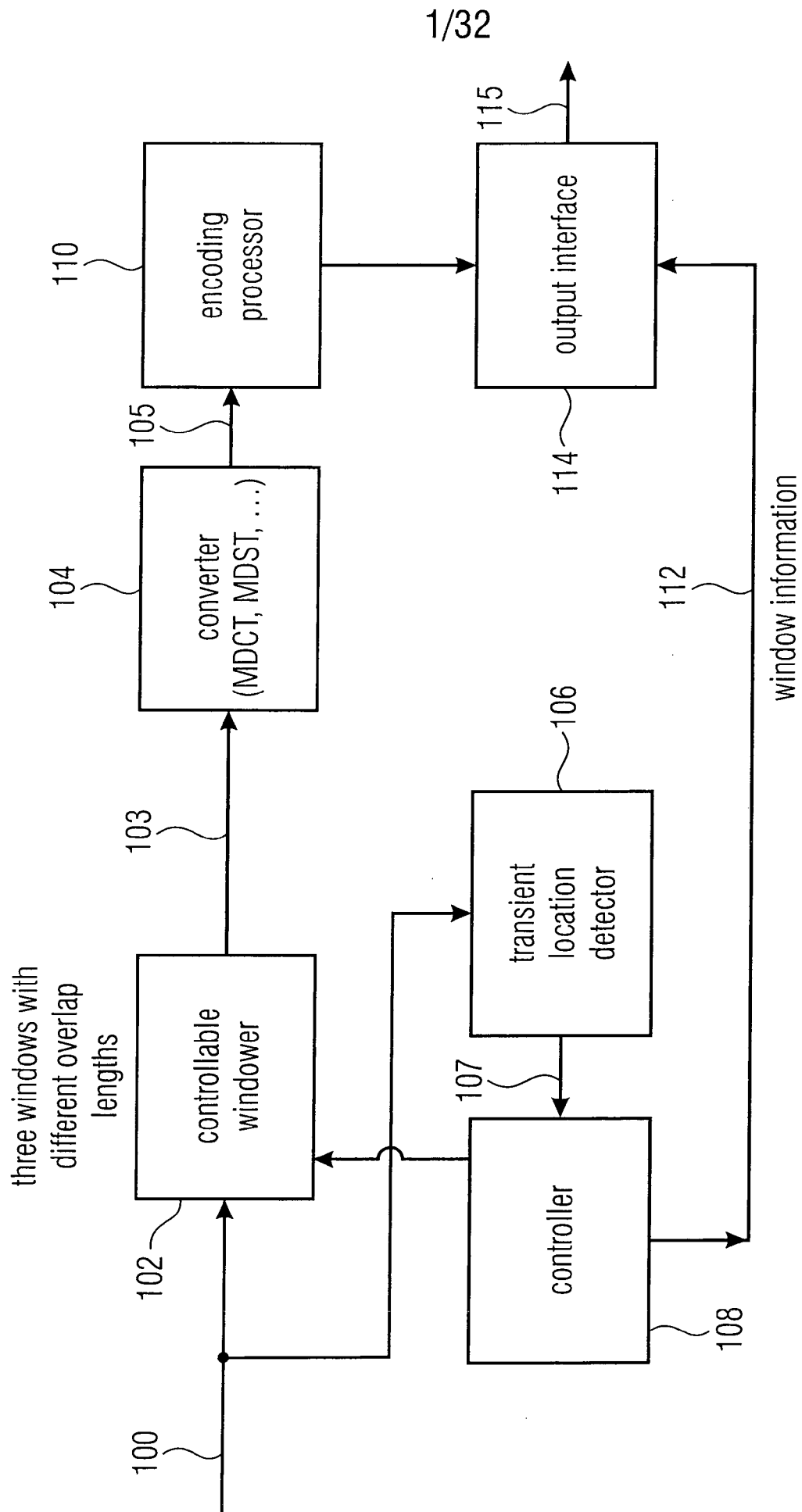


FIG 1A
(ENCODER)

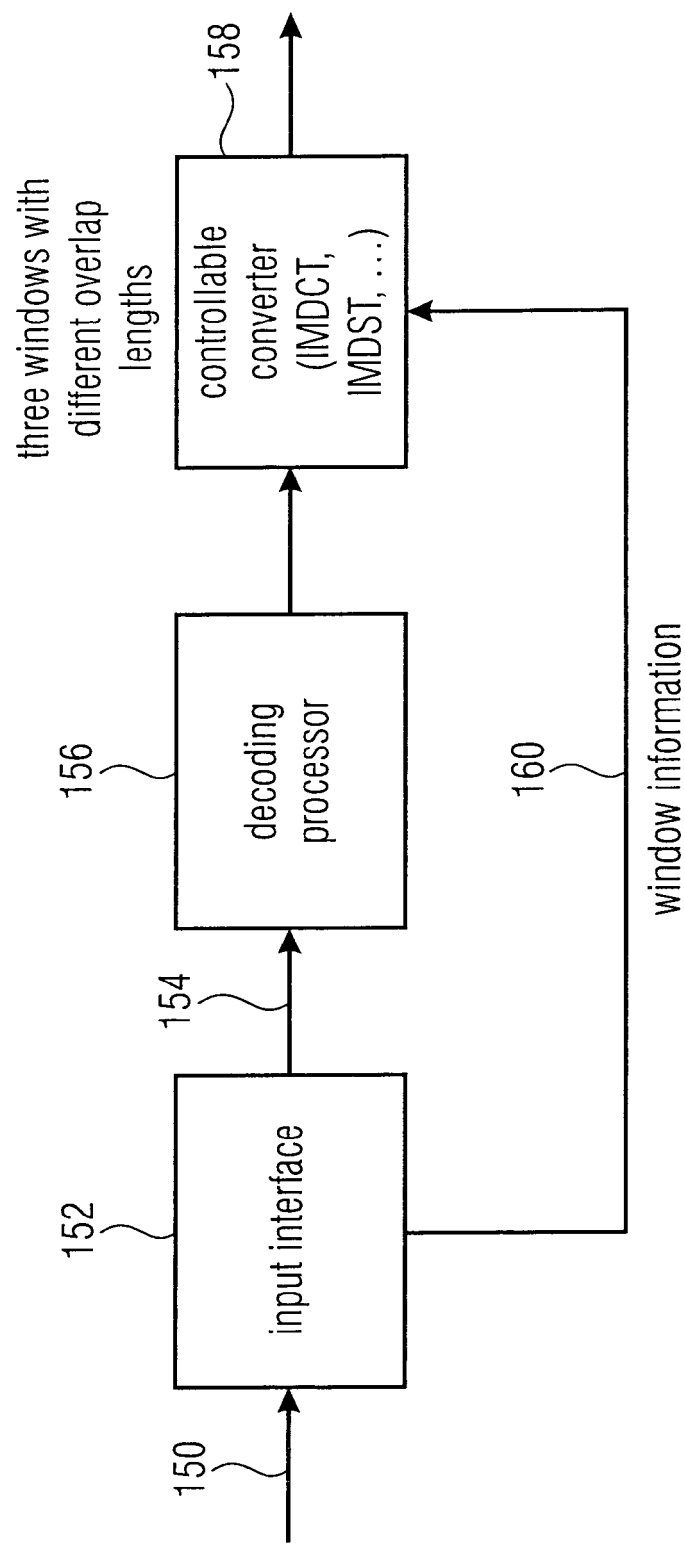
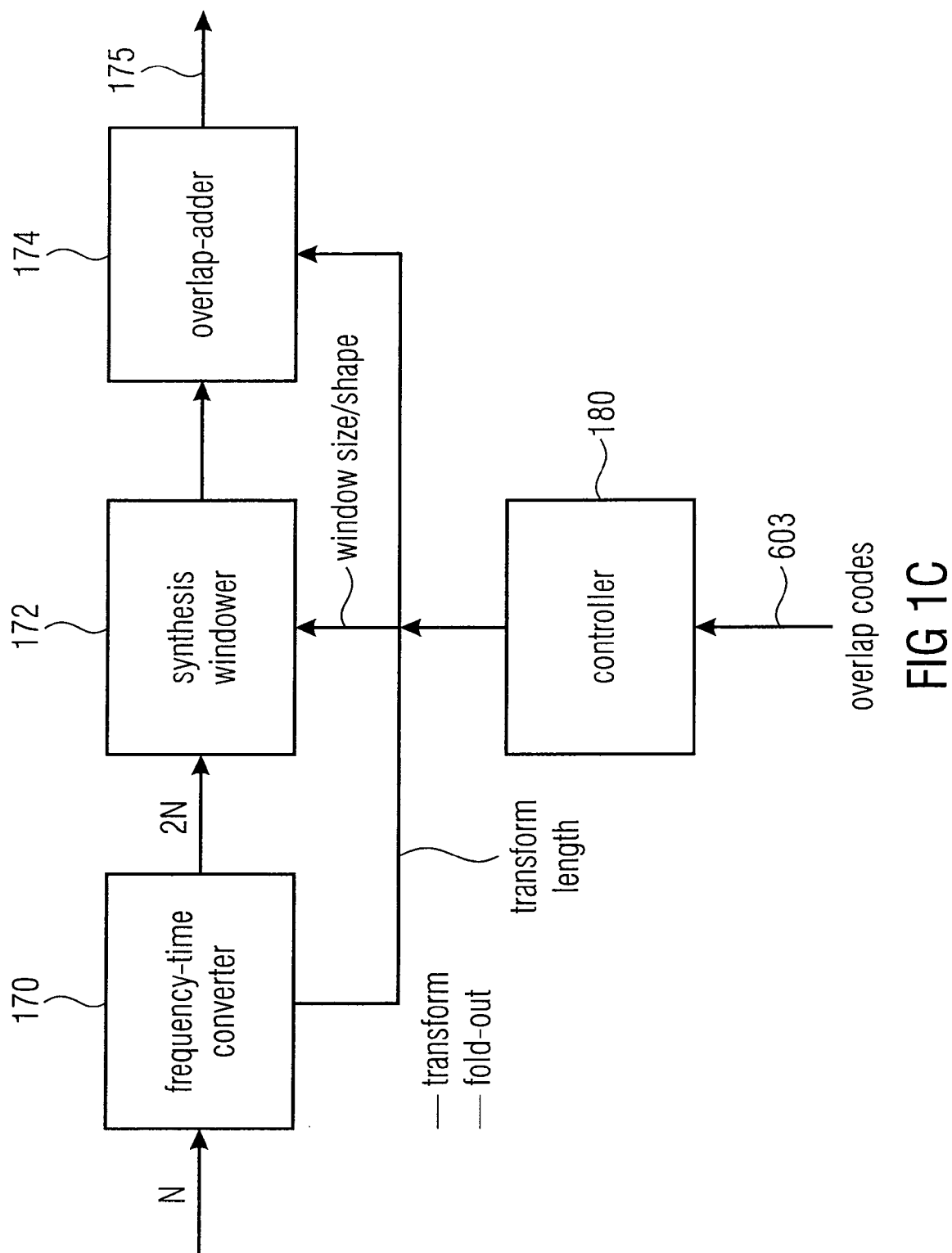


FIG 1B
(DECODER)



4/32

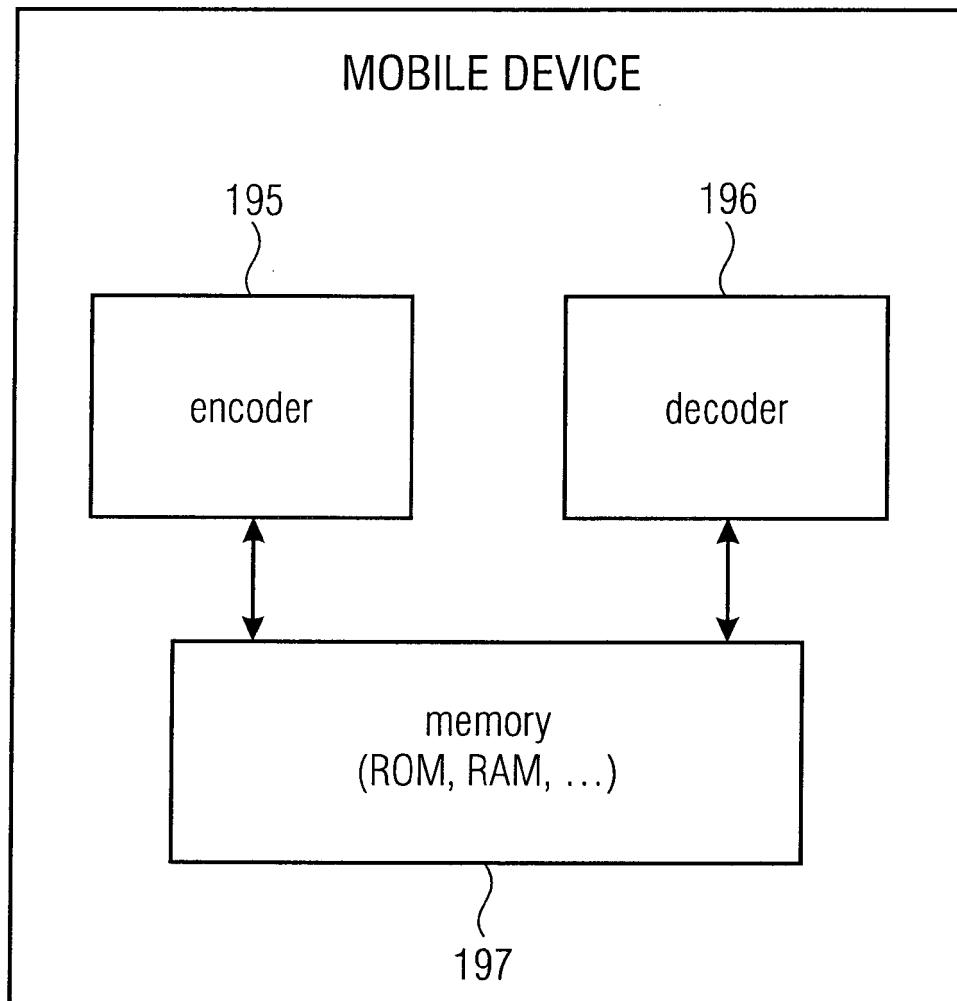


FIG 1D

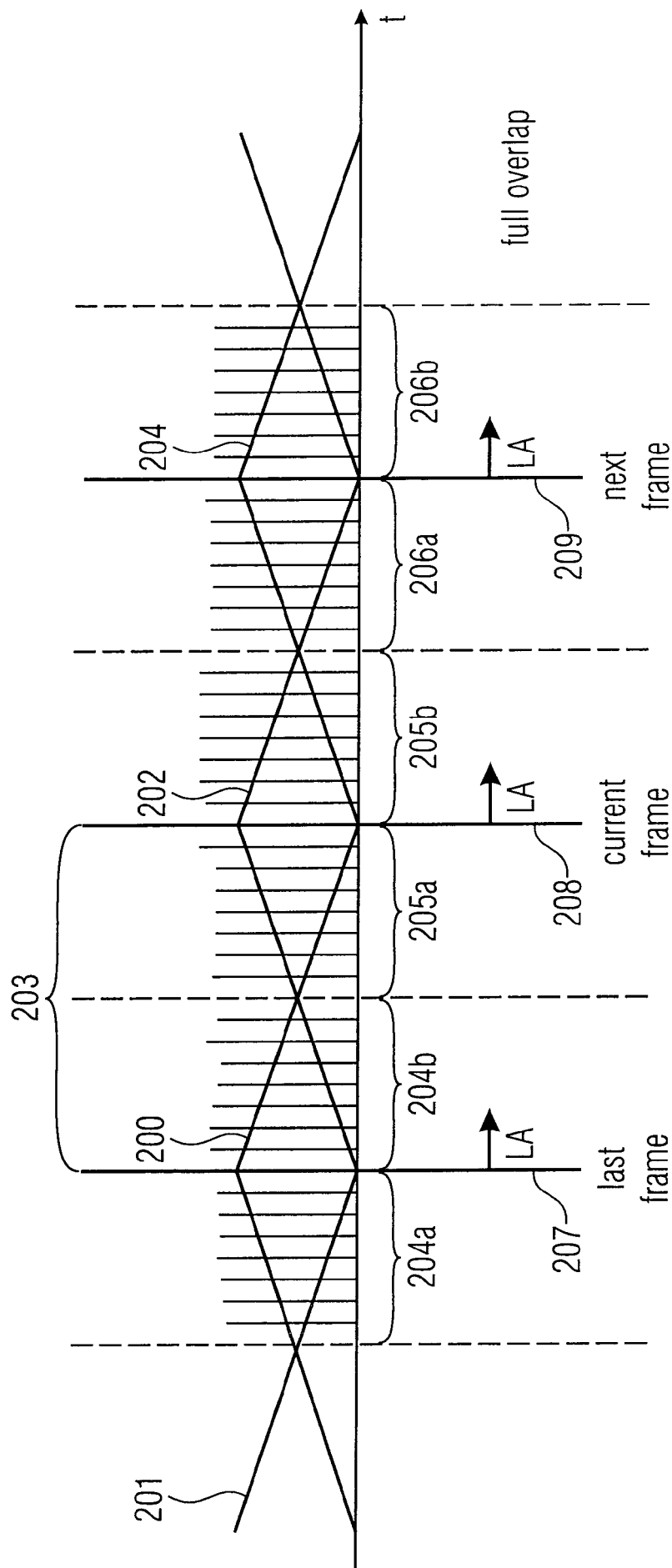
no transients detected

FIG 2A

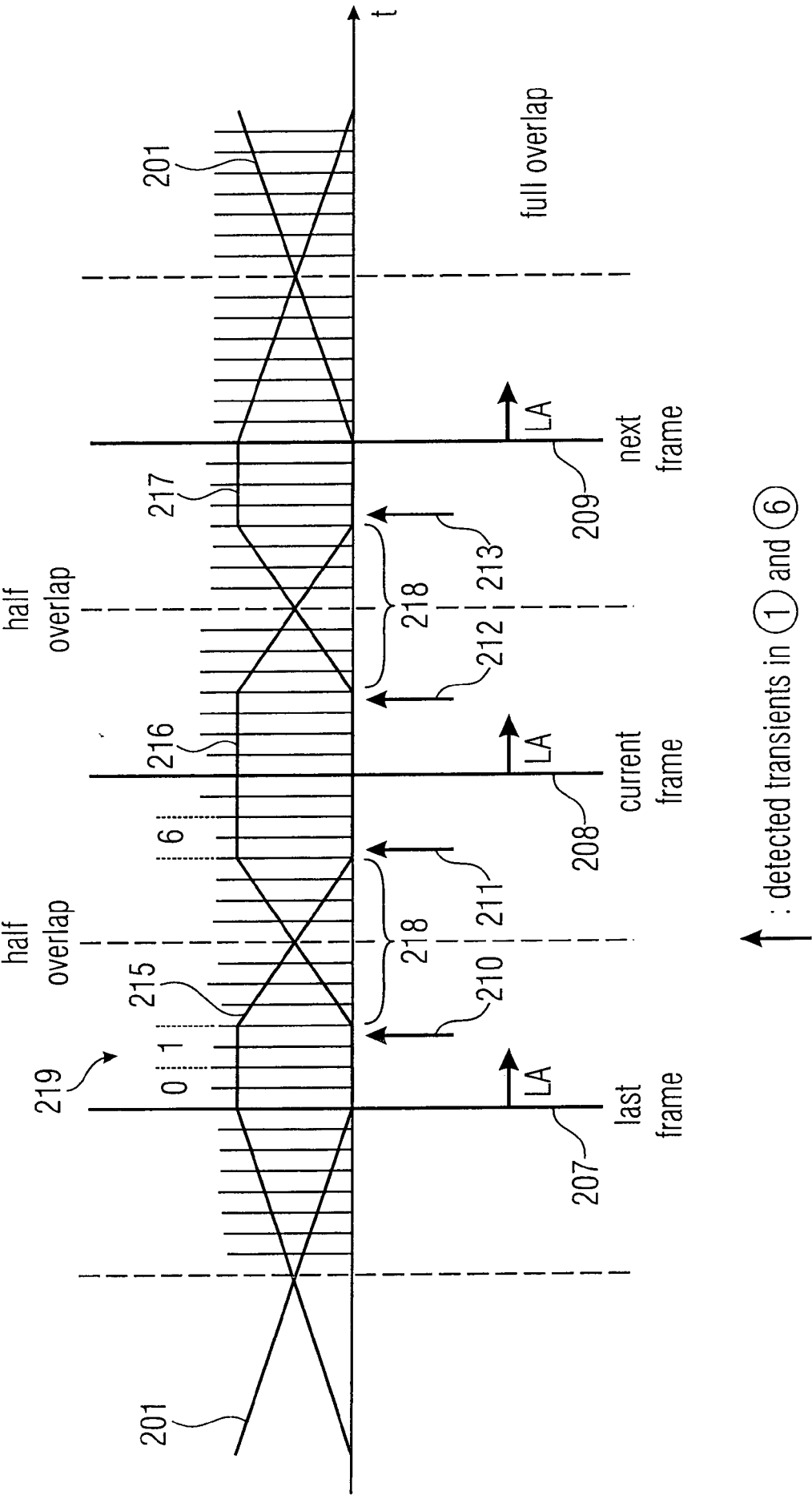
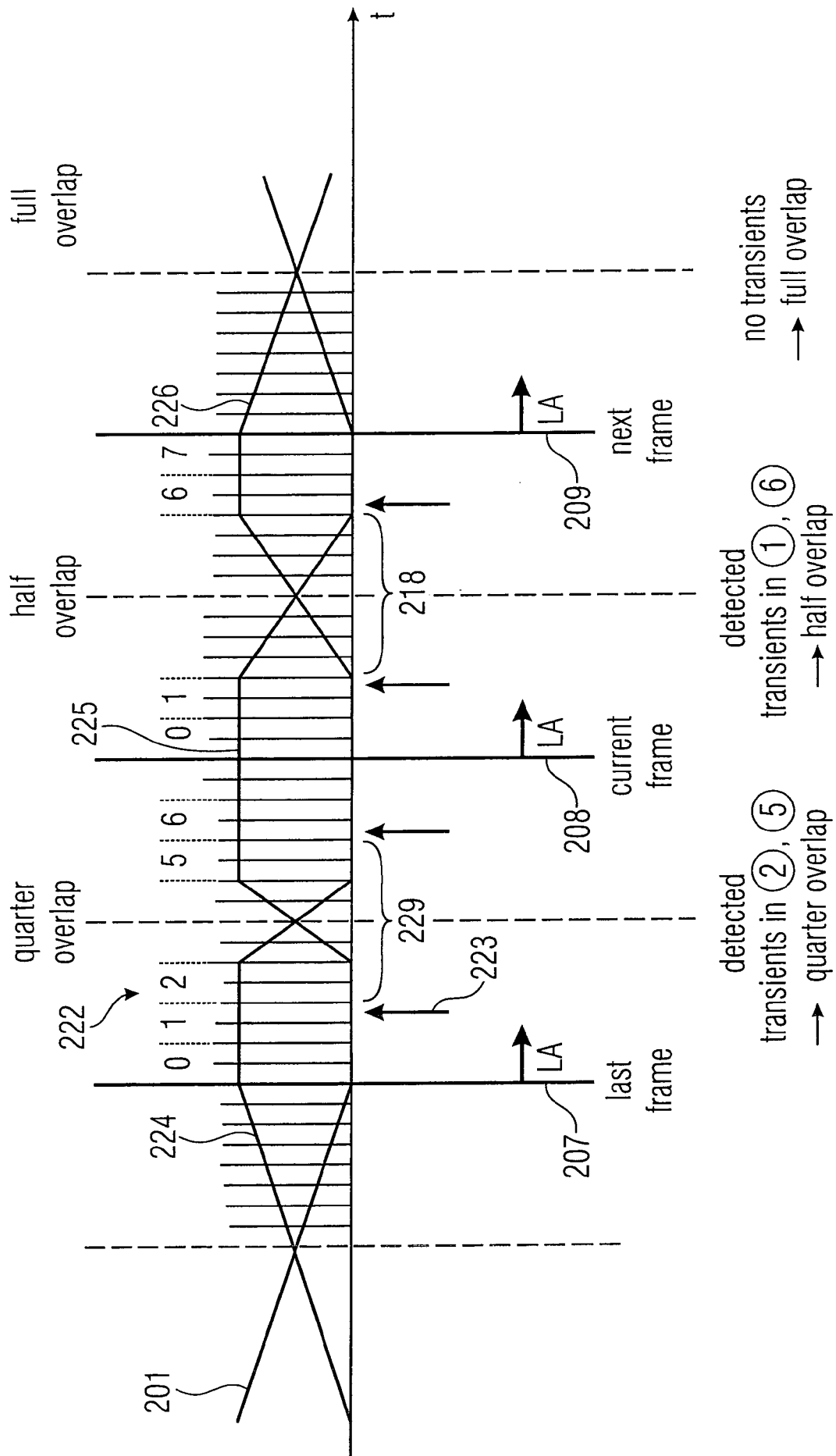


FIG 2B

7/32



8/32

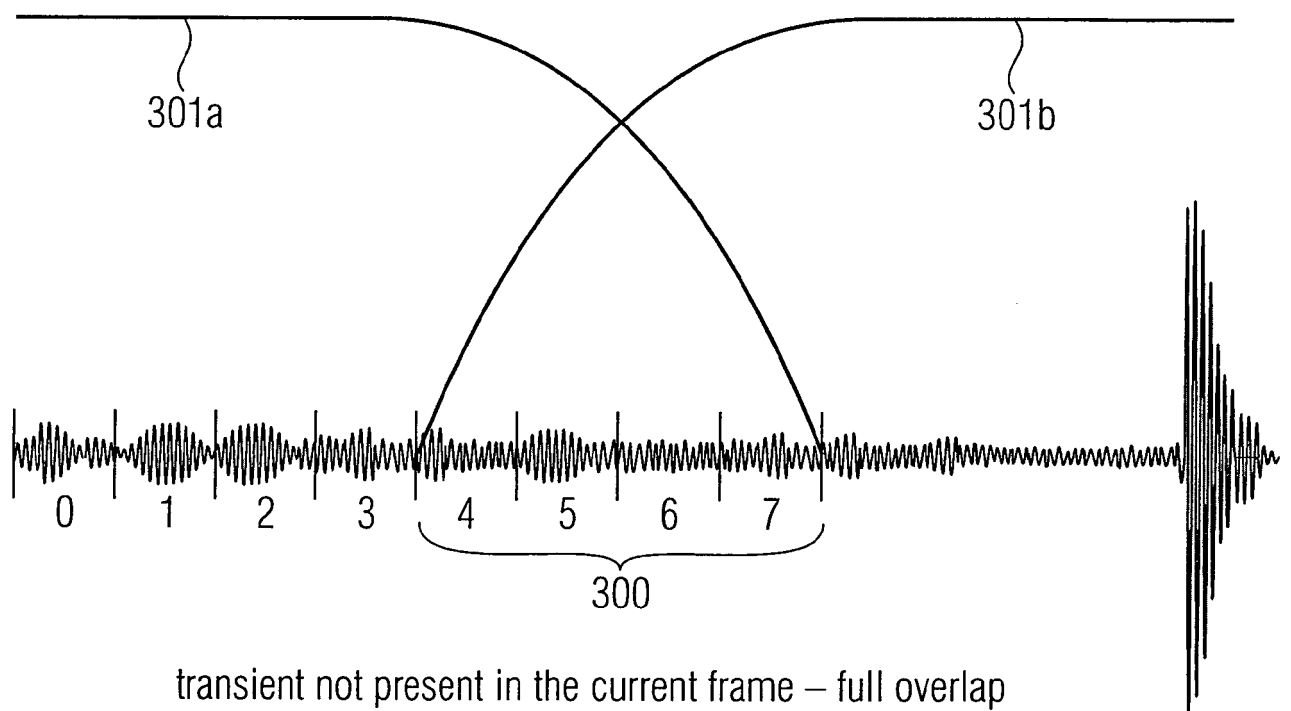


FIG 3A

9/32

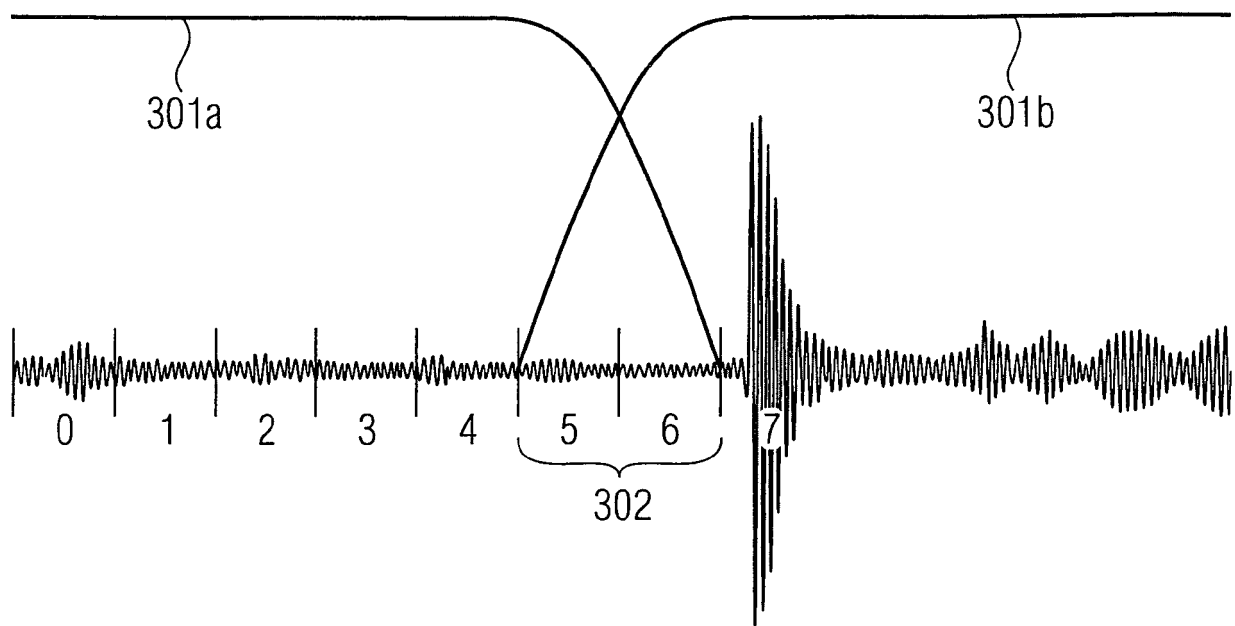
transient in the 7th sub-block – half overlap

FIG 3B

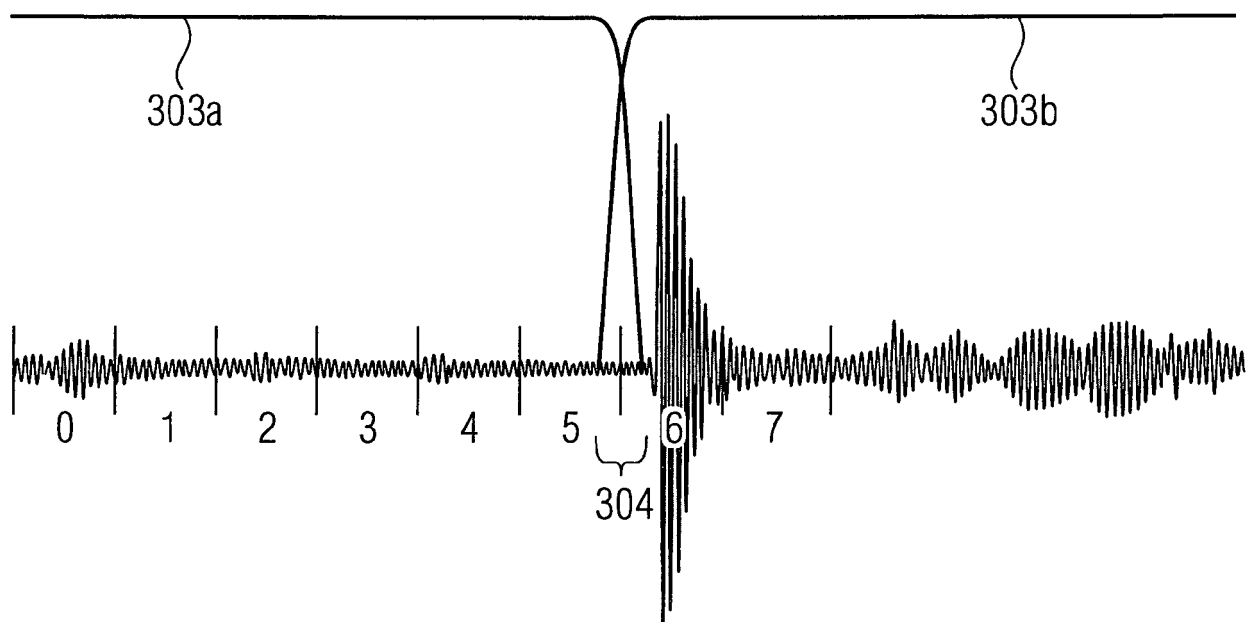
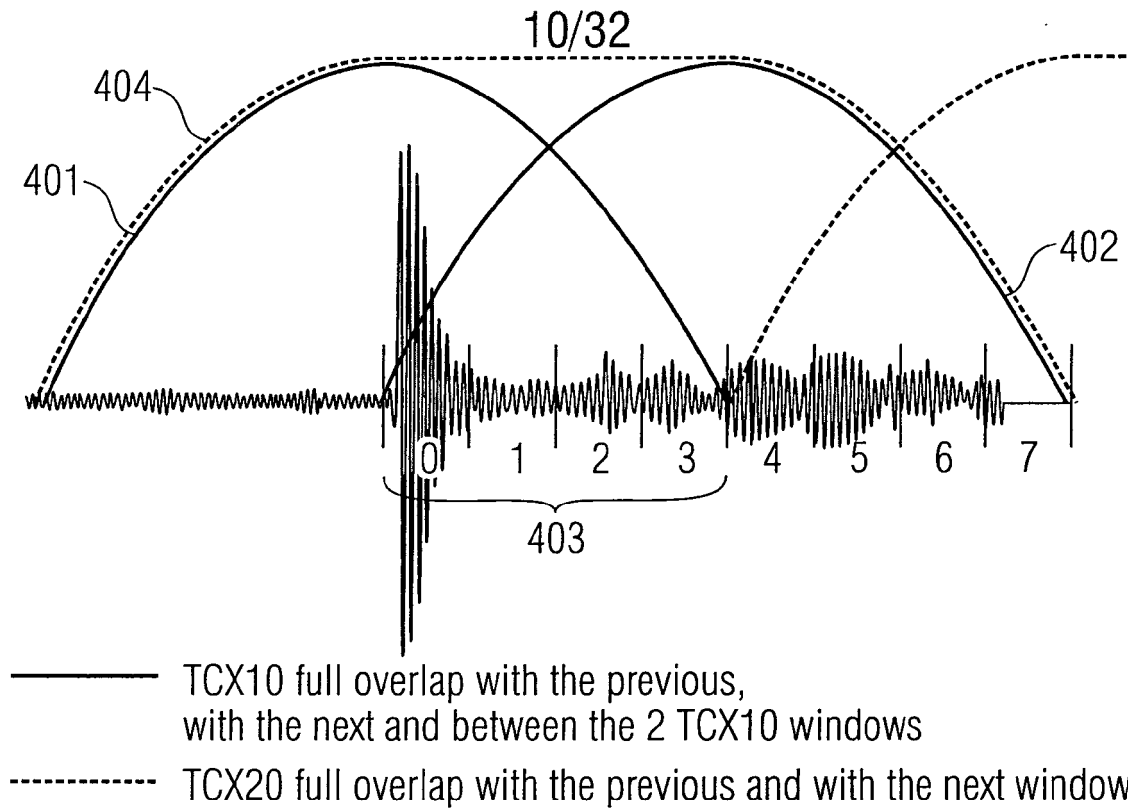
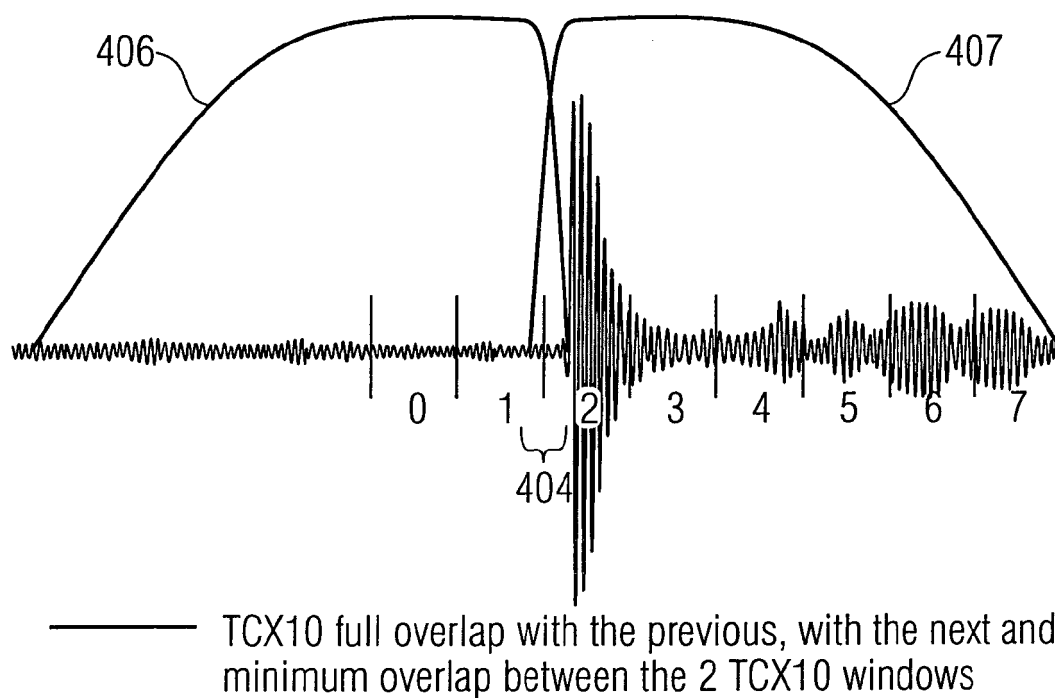
transient in the 6th sub-block – minimal overlap

FIG 3C



transient in the 0th or 1st sub-block
(An example TCX20 window with full overlap on both sides is drawn as a reference.)

FIG 4A



transient in the 2nd sub-block

FIG 4B

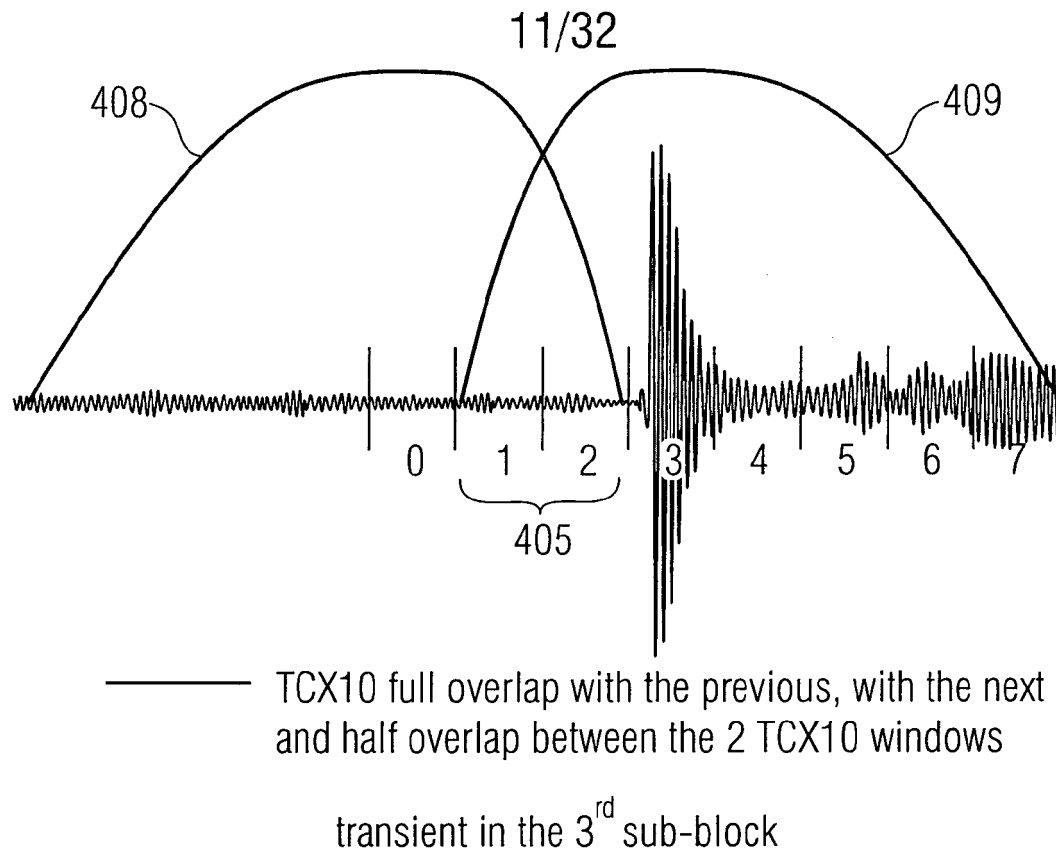


FIG 4C

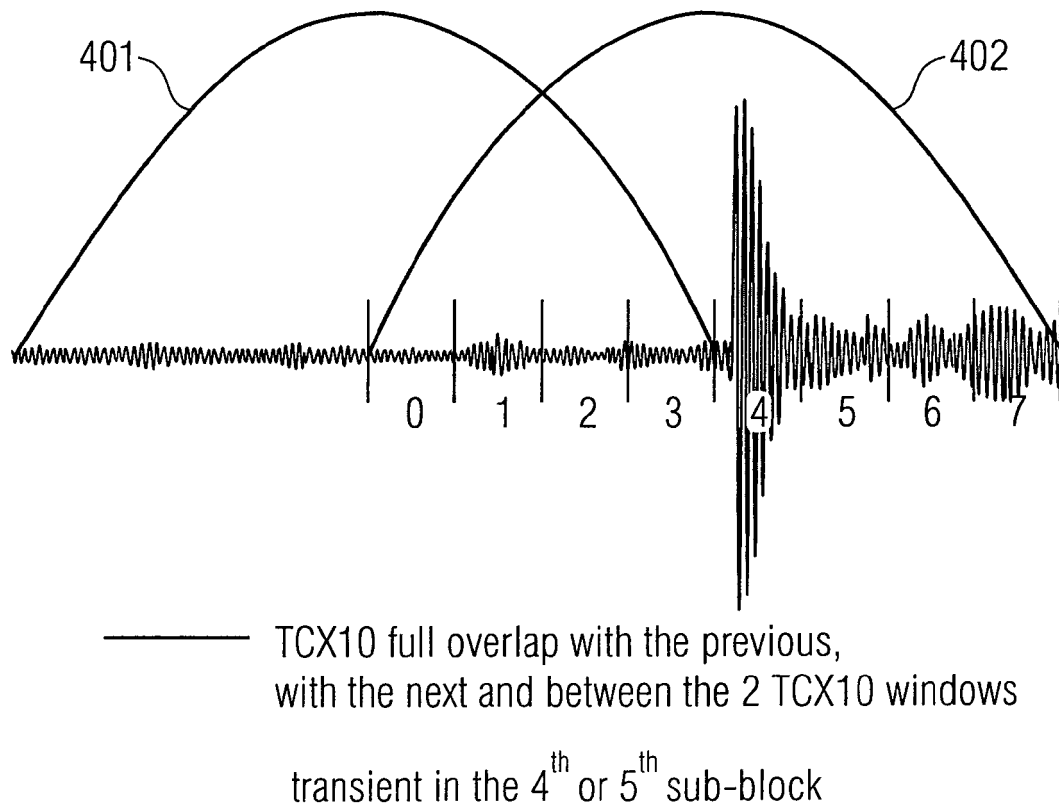


FIG 4D

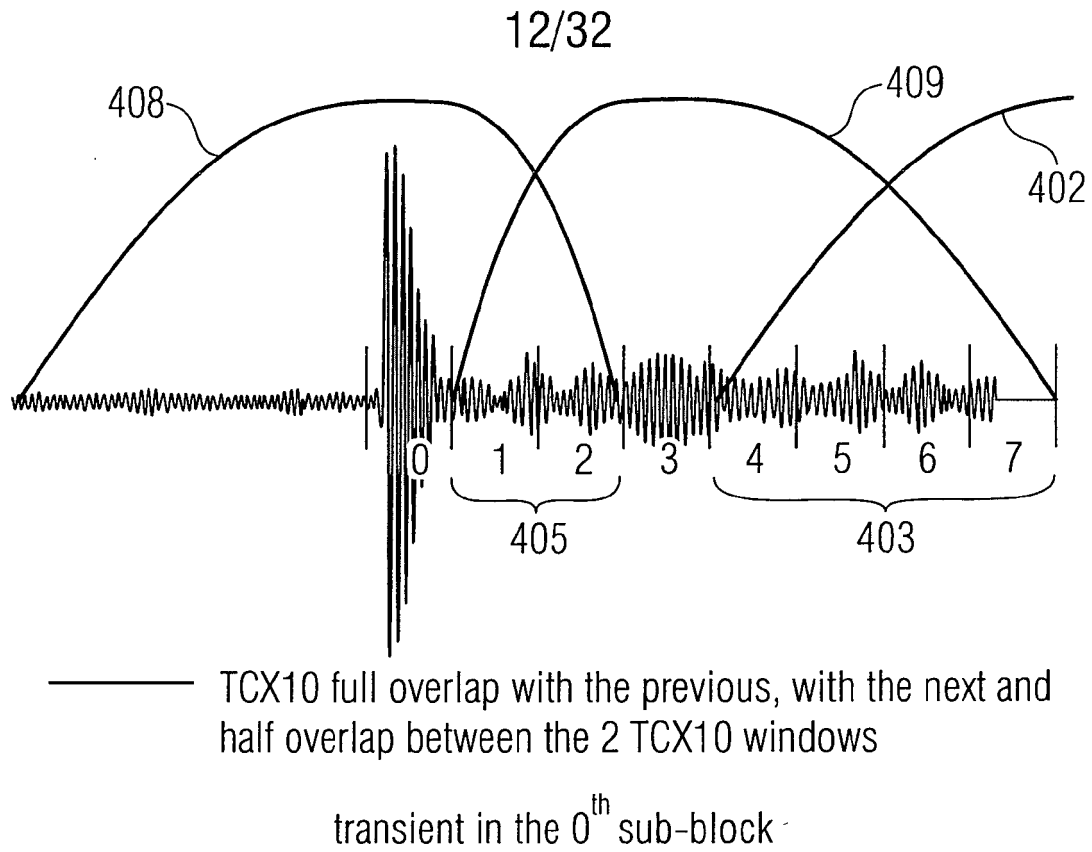


FIG 4E

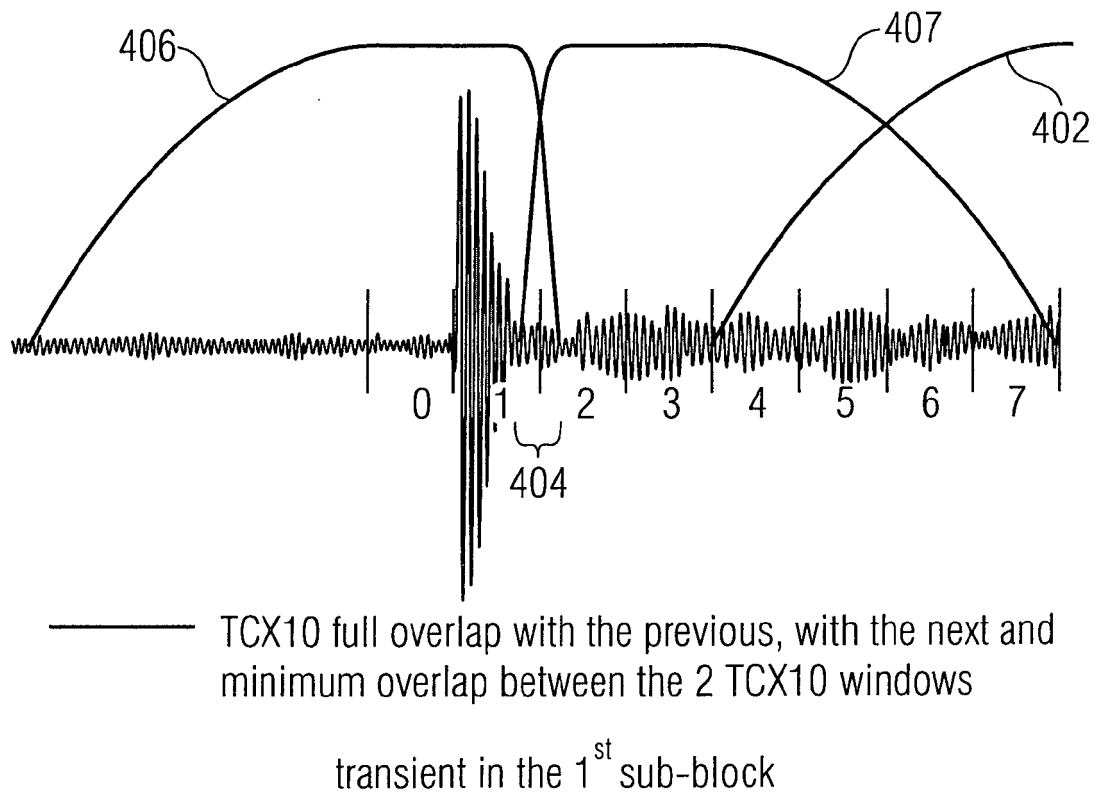
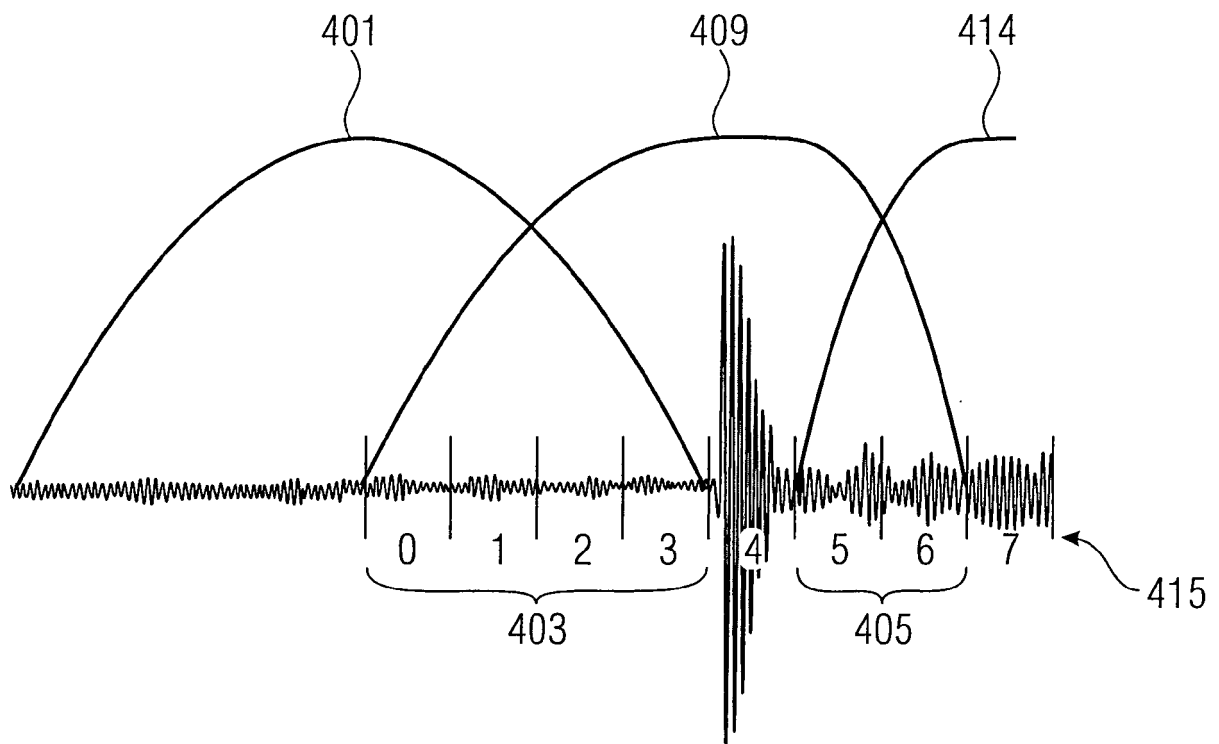


FIG 4F

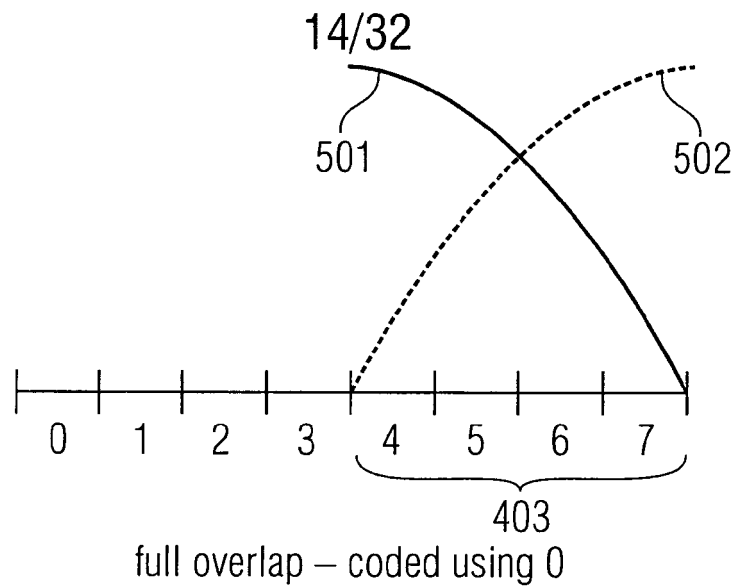
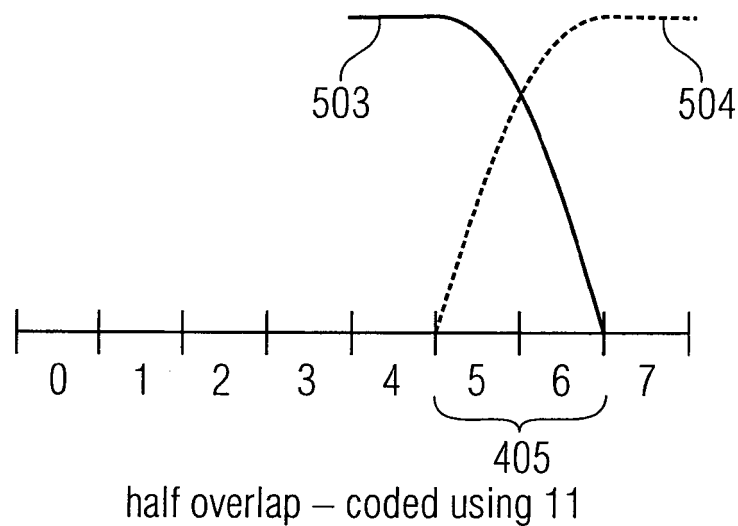
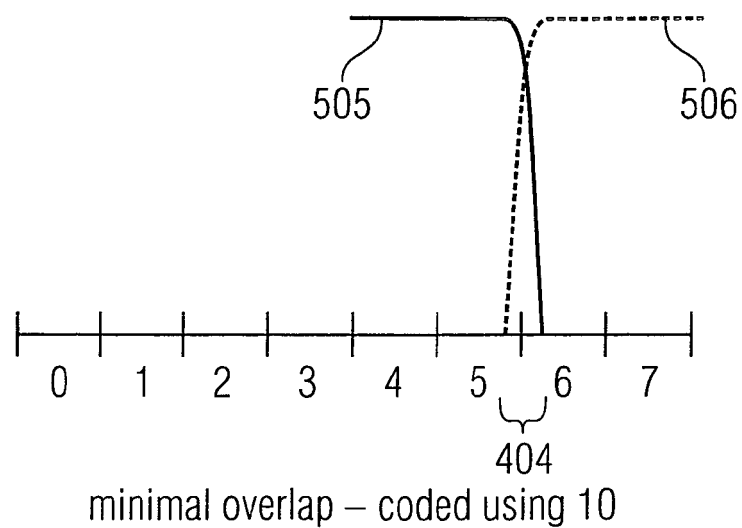
13/32



—— TCX10 full overlap with the previous,
between the 2 TCX10 and half overlap
with the next windows

transient in the 4th sub-block

FIG 4G

**FIG 5A****FIG 5B****FIG 5C**

604 transient position index	605 overlap with the first window of the following frame	600 short/long transform decision (binary coded) 0 – long, 1 – short	602 binary code for the overlap width	603 overlap code
none	full	0	0	00
-2	full	1	0	10
-1	full	1	0	10
0	full	1	0	10
1	full	1	0	10
2	half	1	11	111
3	half	1	11	111
4	half	1	11	111
5	minimal	1	10	110
6	minimal	0	10	010
7	half	0	11	011

coding of the overlap and the transform length based on the transient position

FIG 6A

previous overlap code current overlap code		00	10	111	110	010	011
00		TCX20	TCX20	TCX20	TCX20	TCX20	TCX20
10		2xTCX5, TCX10	2xTCX5, TCX10	2xTCX5, TCX10	2xTCX5, TCX10	2xTCX5, TCX10	2xTCX5, TCX10
111		TCX10, 2xTCX5	TCX10, 2xTCX5	4xTCX5	4xTCX5	4xTCX5	4xTCX5
110		TCX10, 2xTCX5	TCX10, 2xTCX5	4xTCX5	4xTCX5	4xTCX5	4xTCX5
010		TCX20	TCX20	TCX20	TCX20	TCX20	TCX20
011		TCX20	TCX20	TCX20	TCX20	TCX20	TCX20

transform lengths decision table

FIG 6B

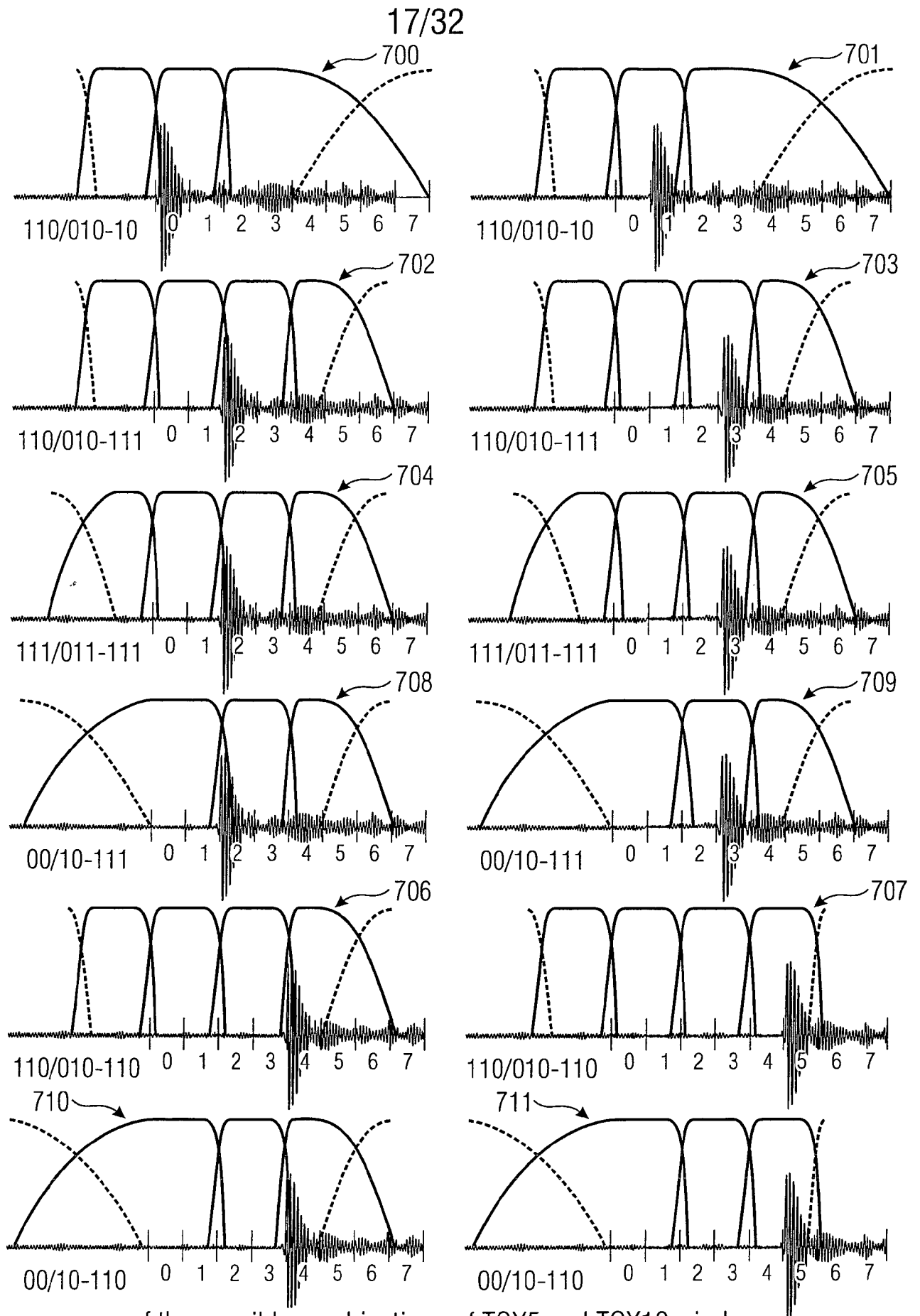


FIG 7

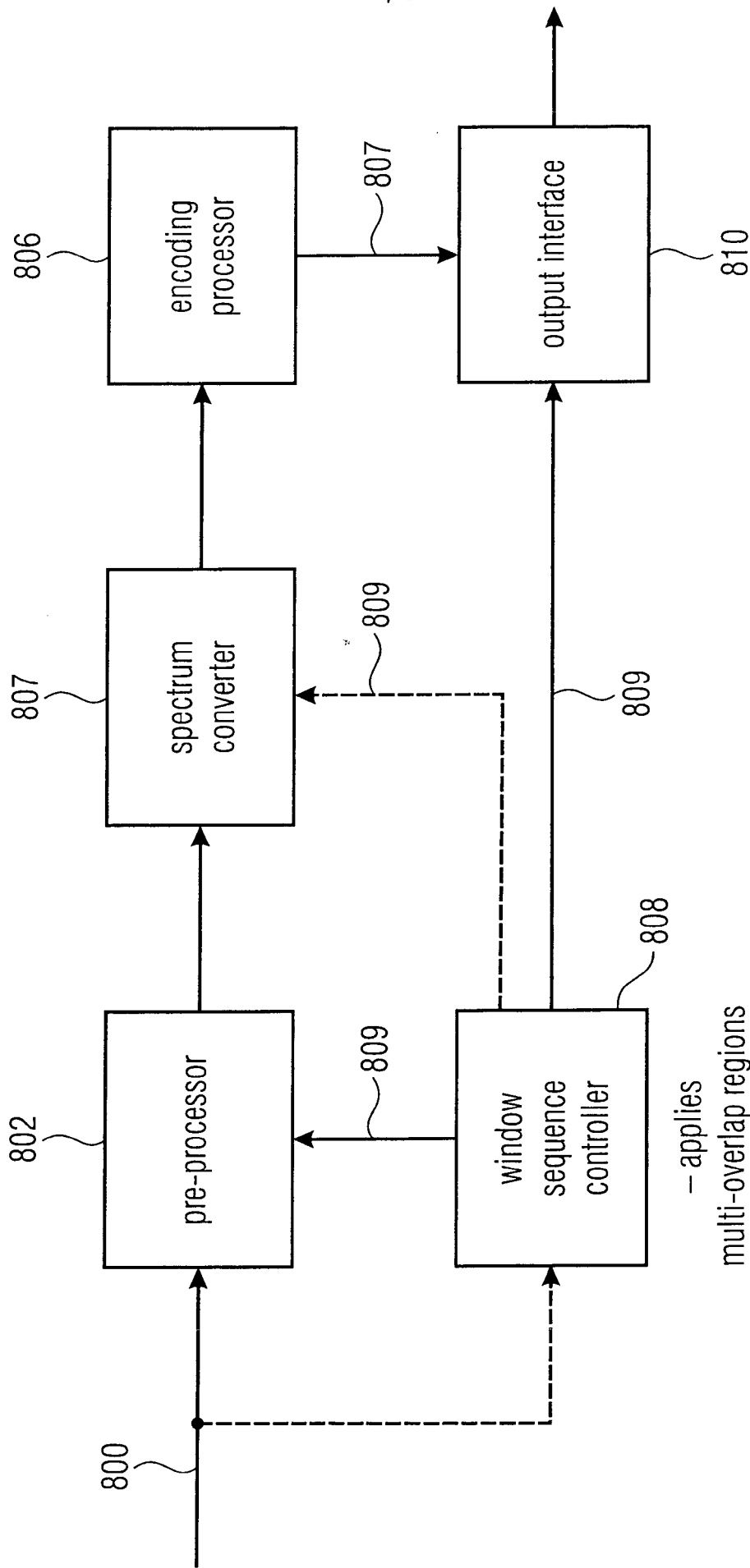


FIG 8A

19/32

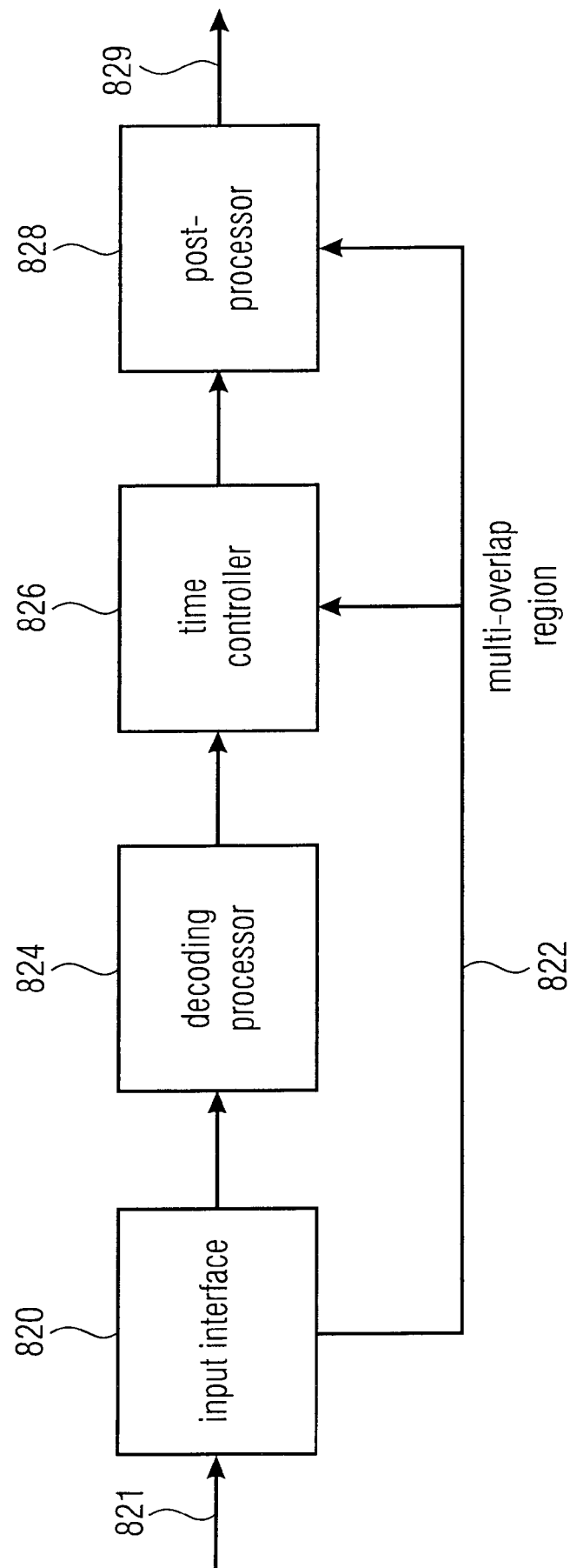


FIG 8B

20/32

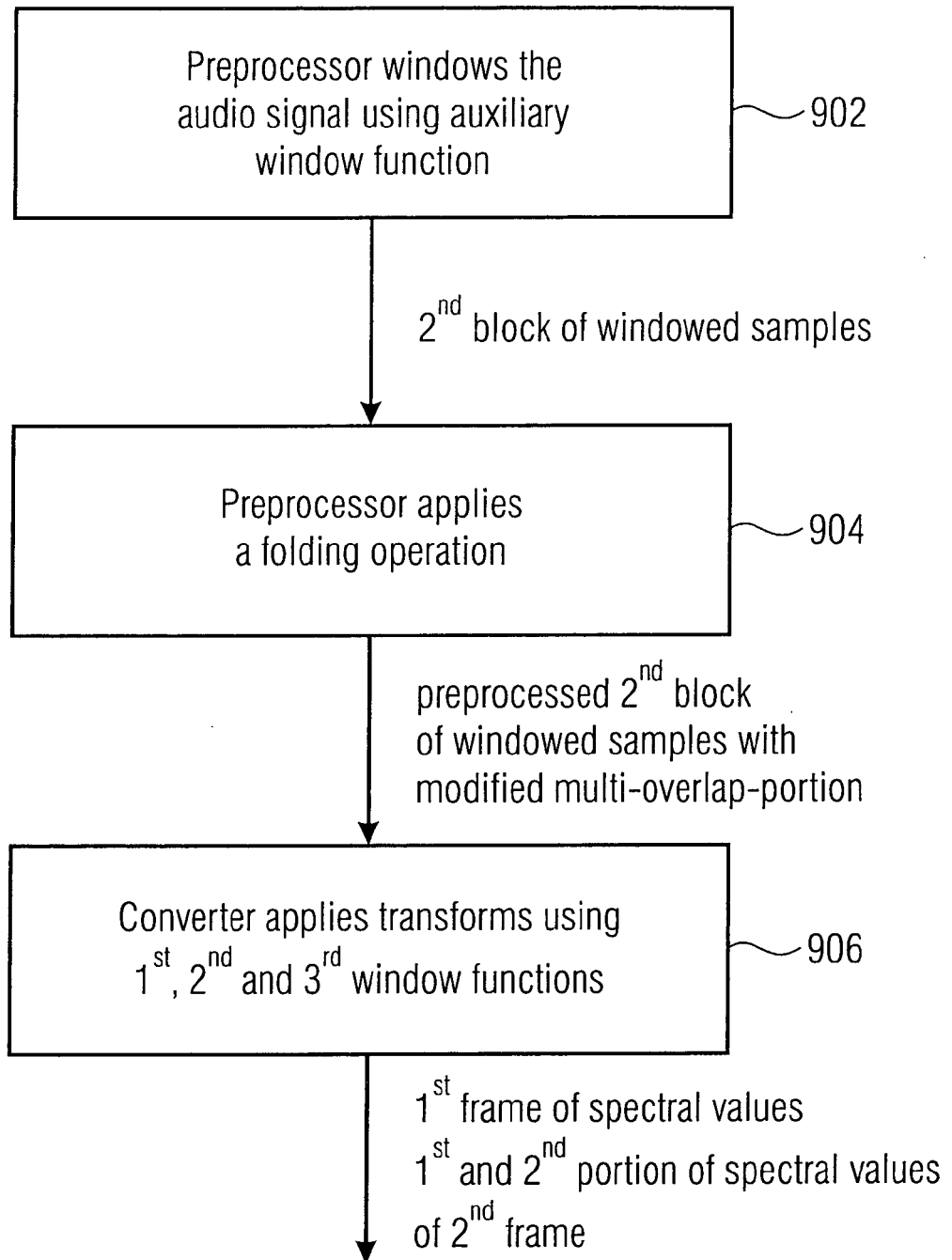


FIG 9A

21/32

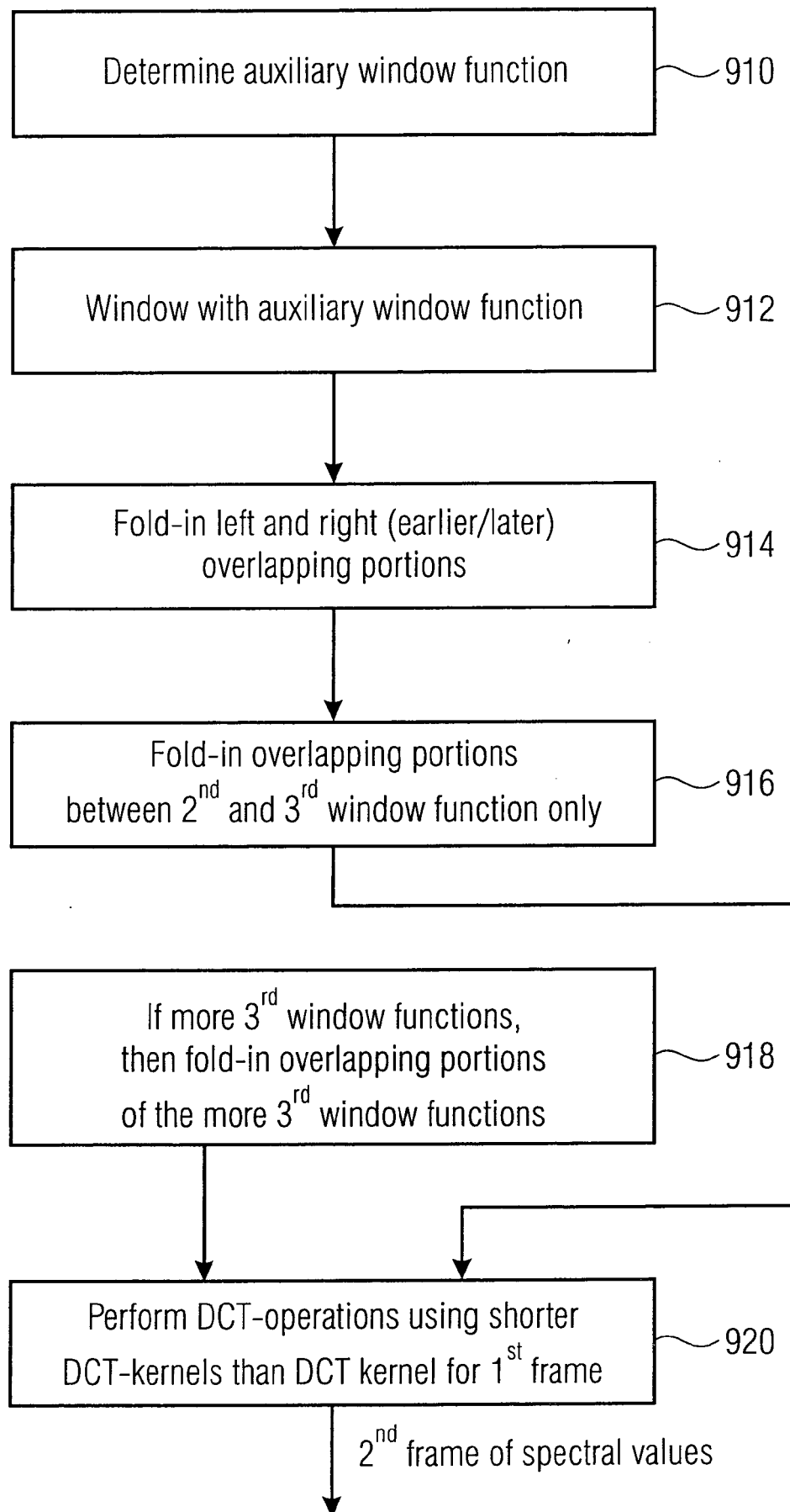


FIG 9B

22/32

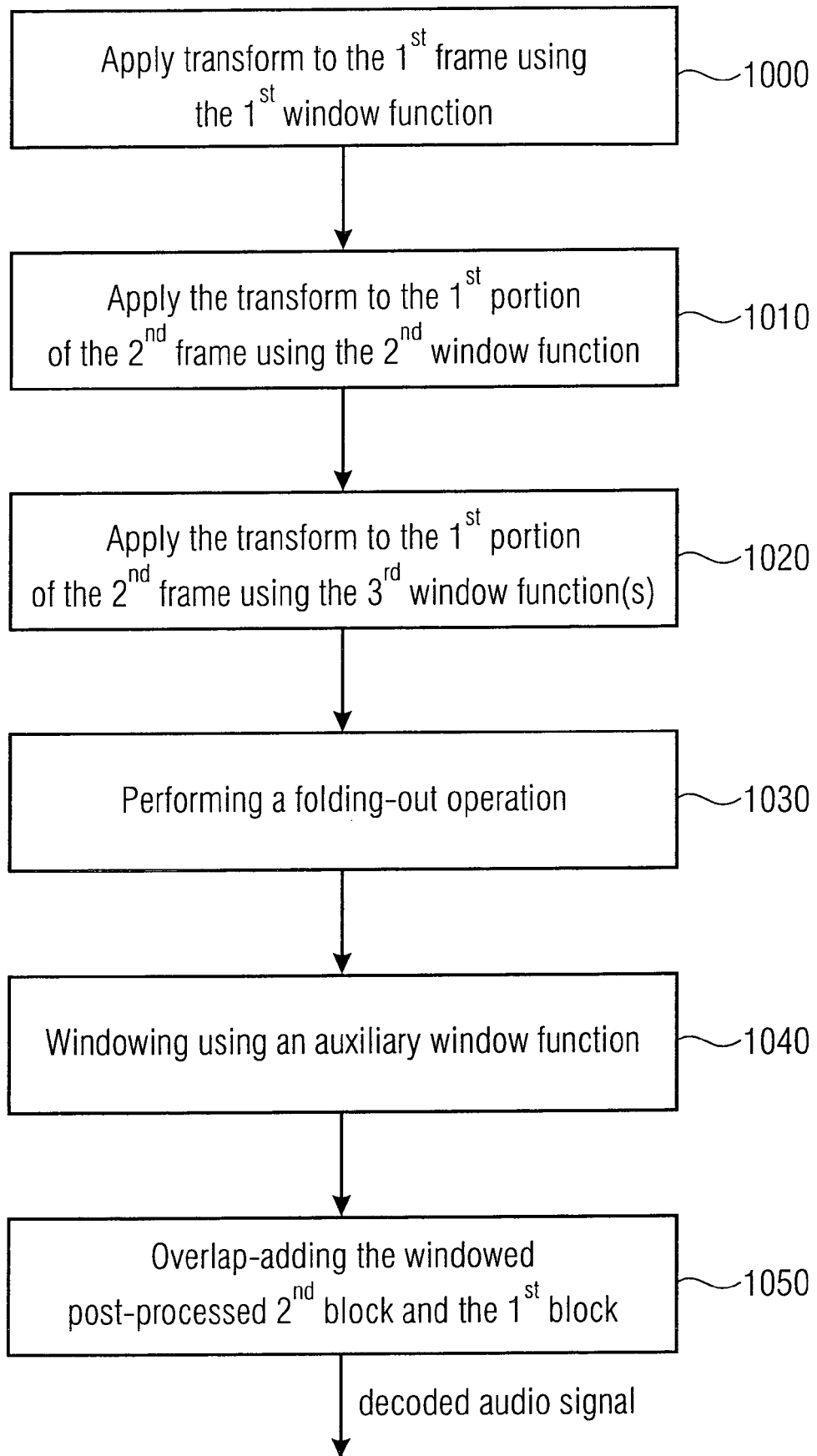


FIG 10A

23/32

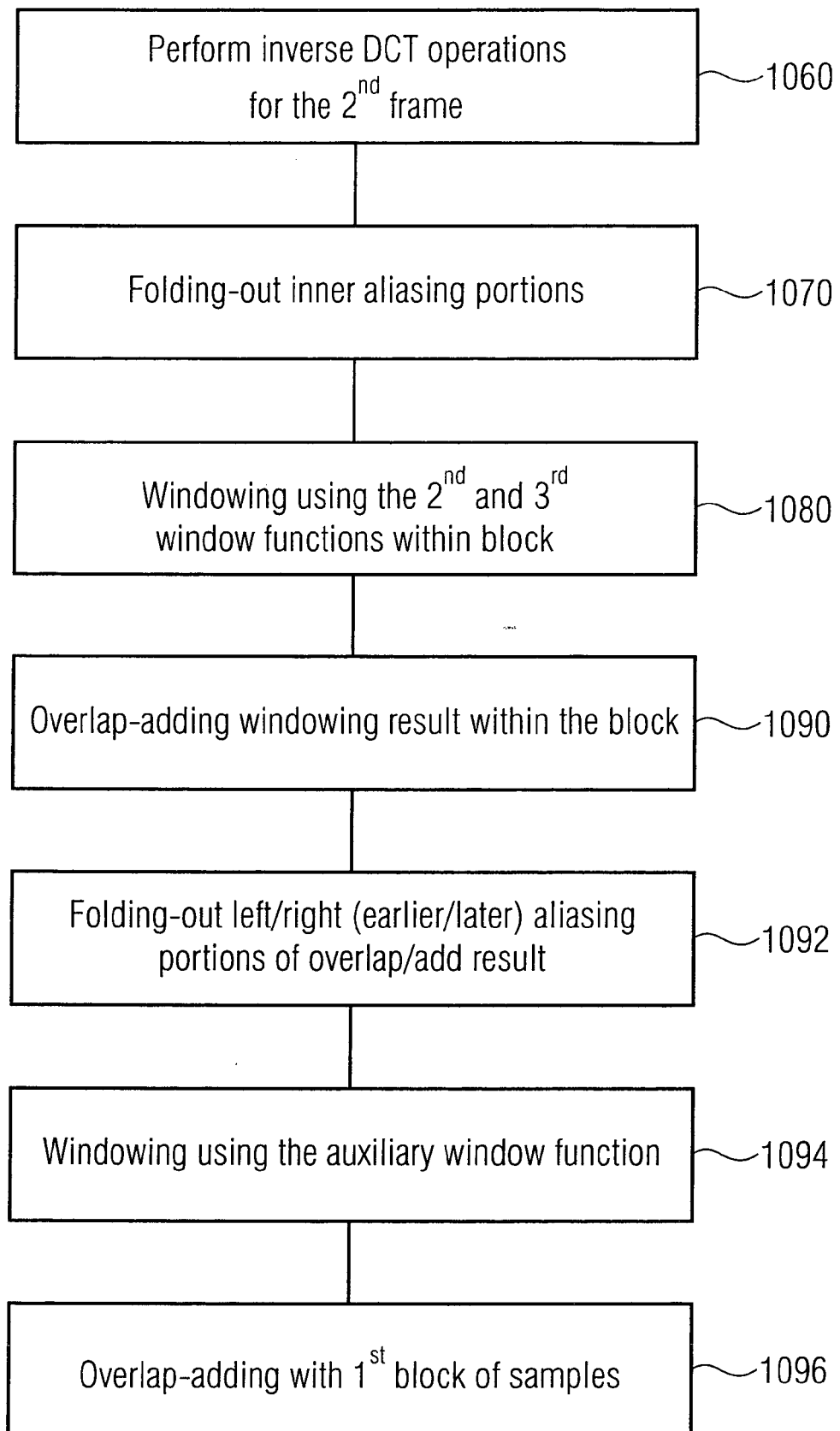


FIG 10B

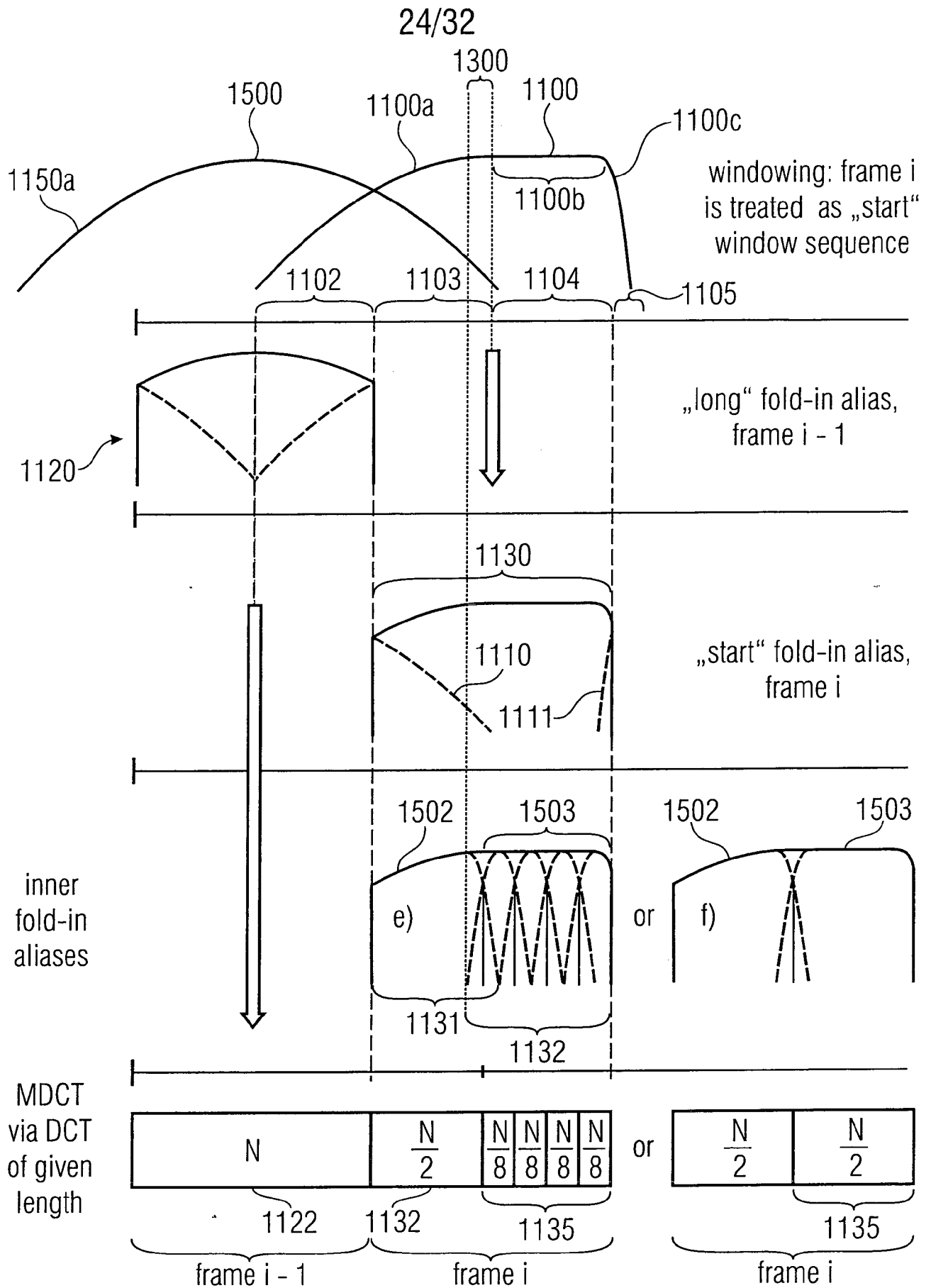


FIG 11A
(ENCODER)

25/32

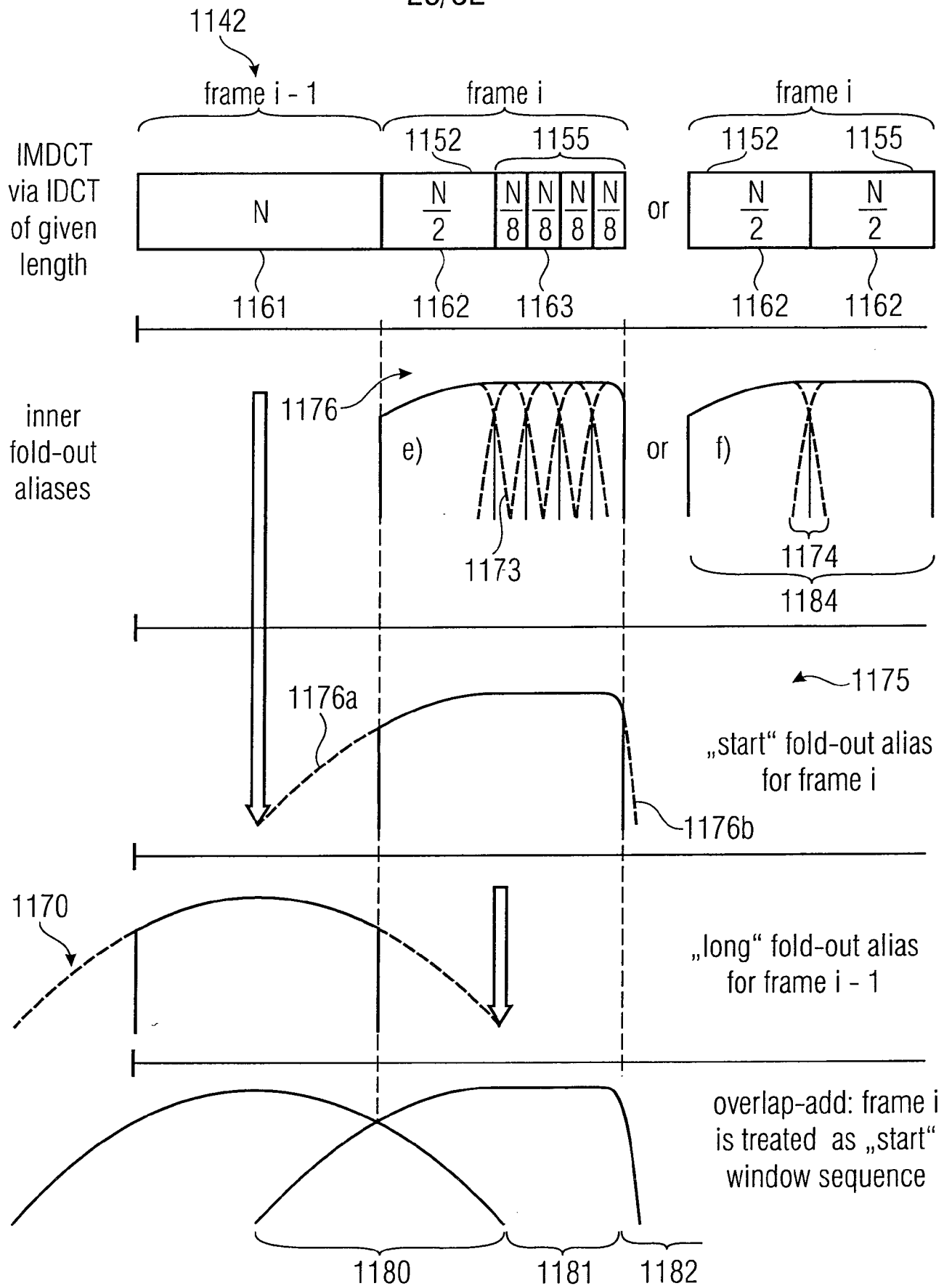


FIG 11B
(DECODER)

26/32

ENCODER

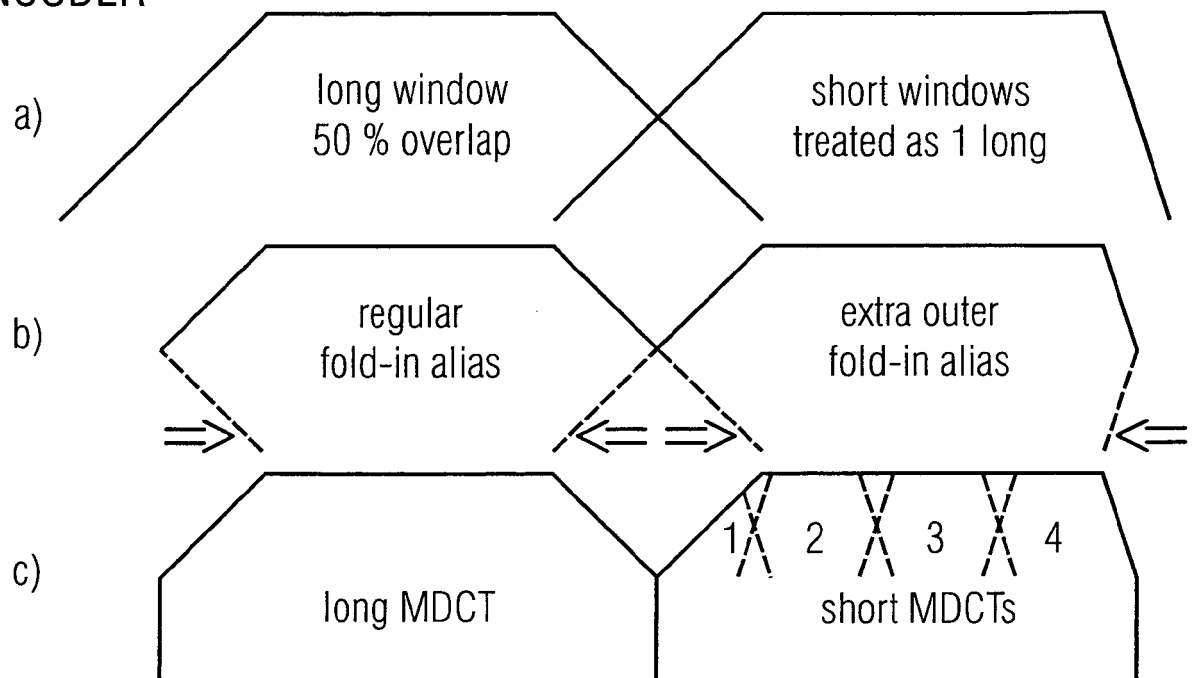


FIG 12A

DECODER

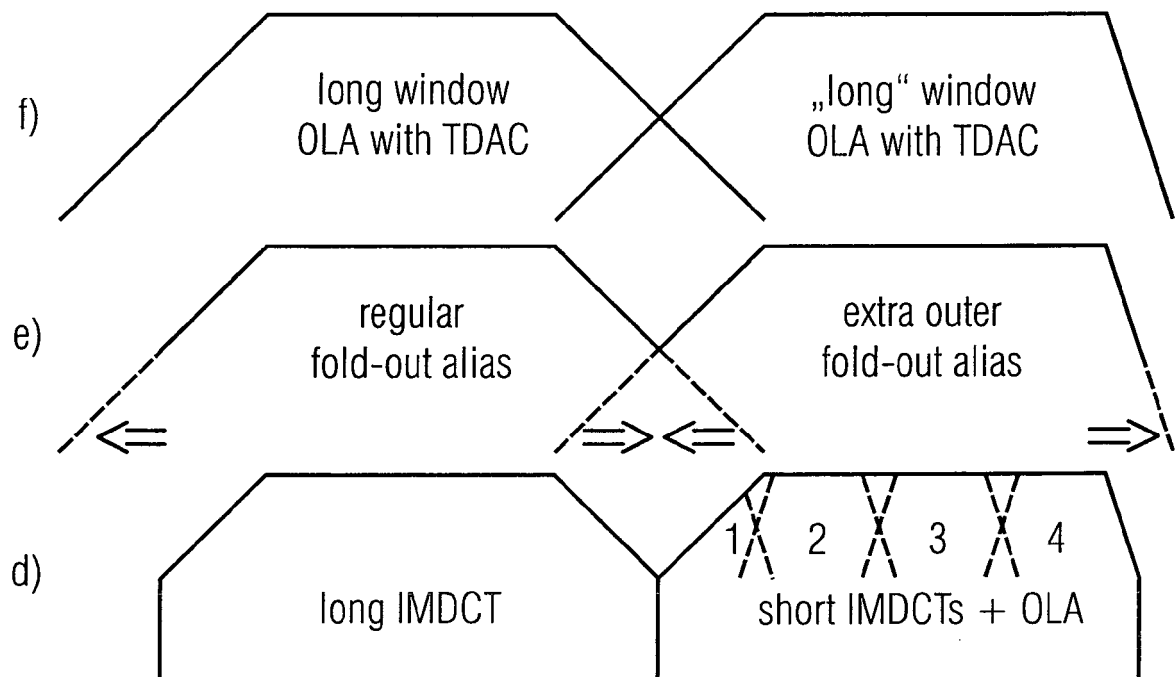


FIG 12B

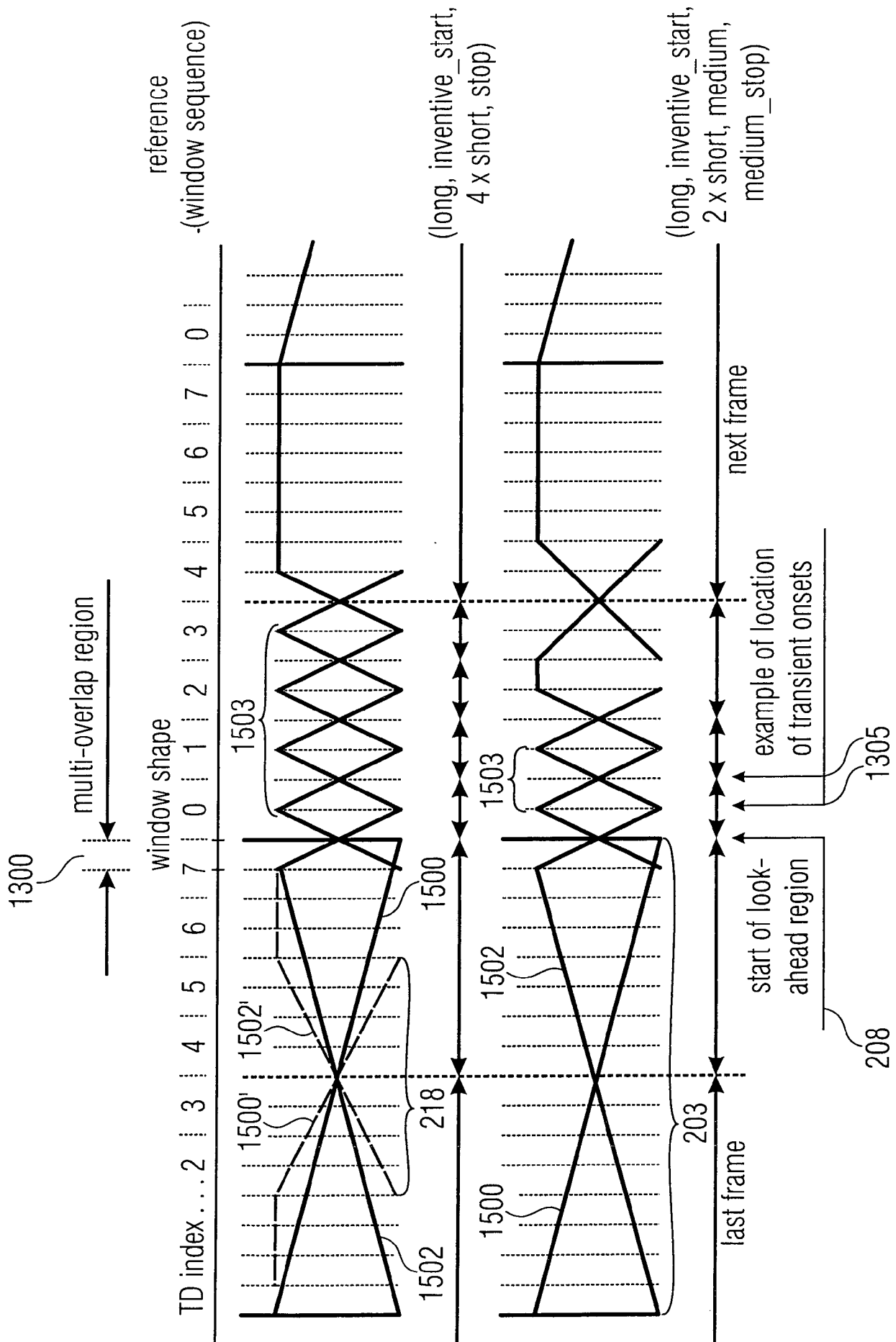
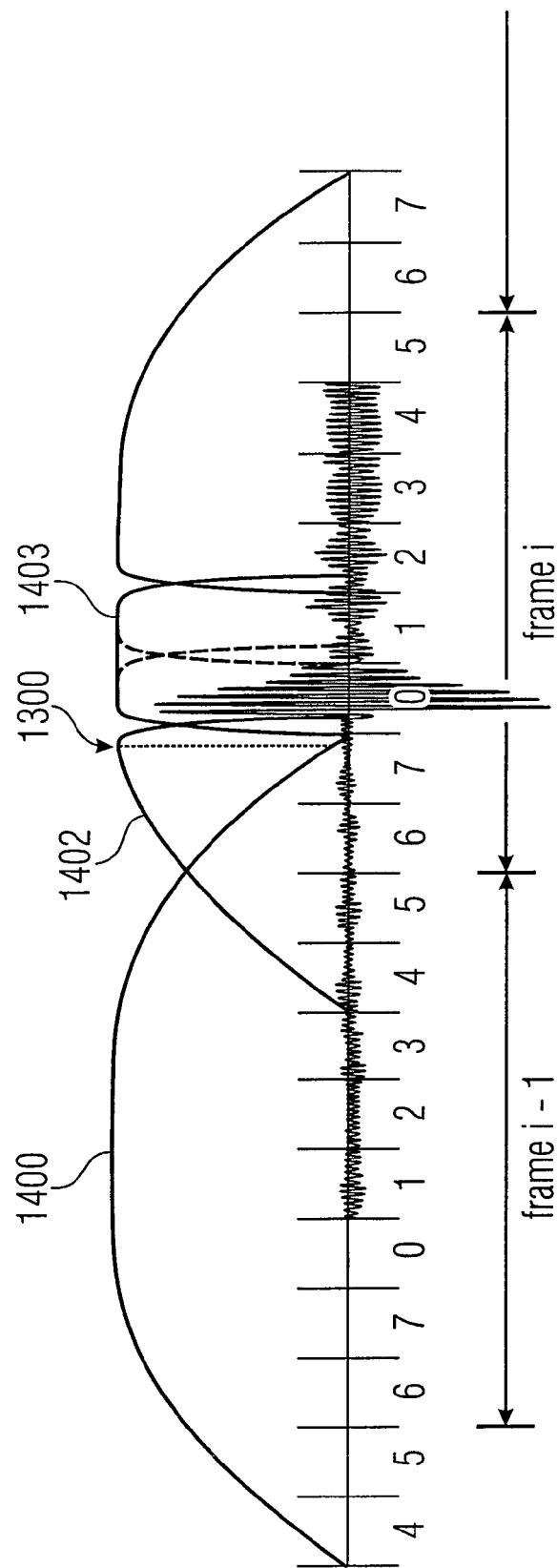
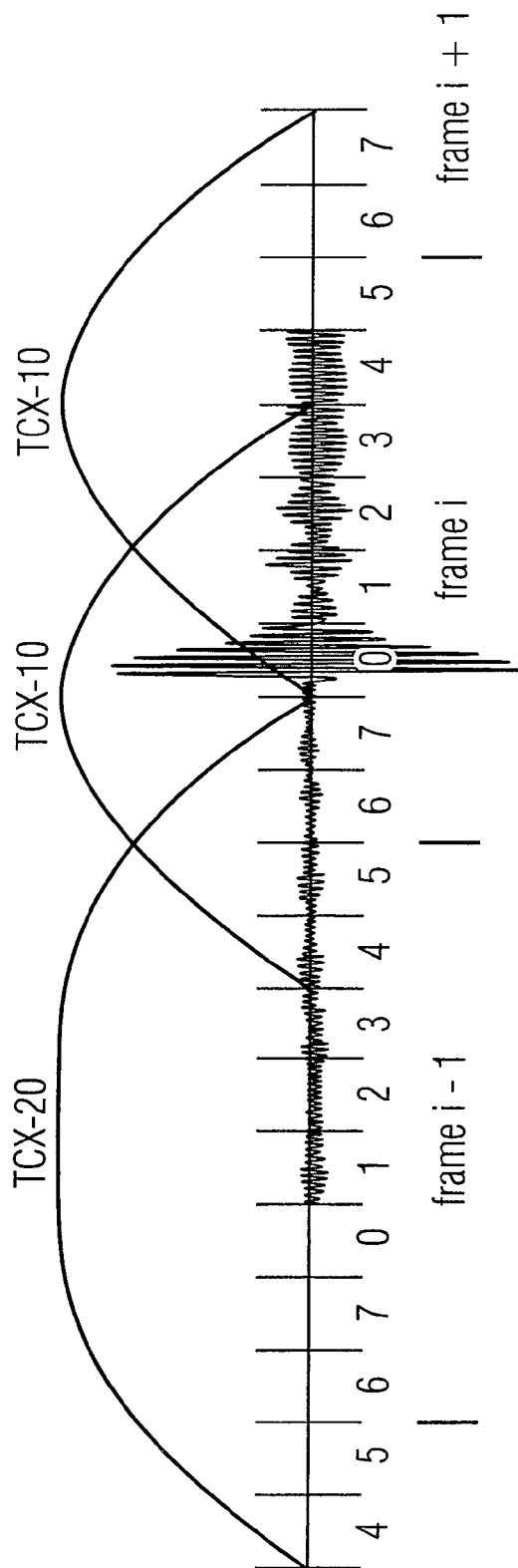


FIG 13



29/32

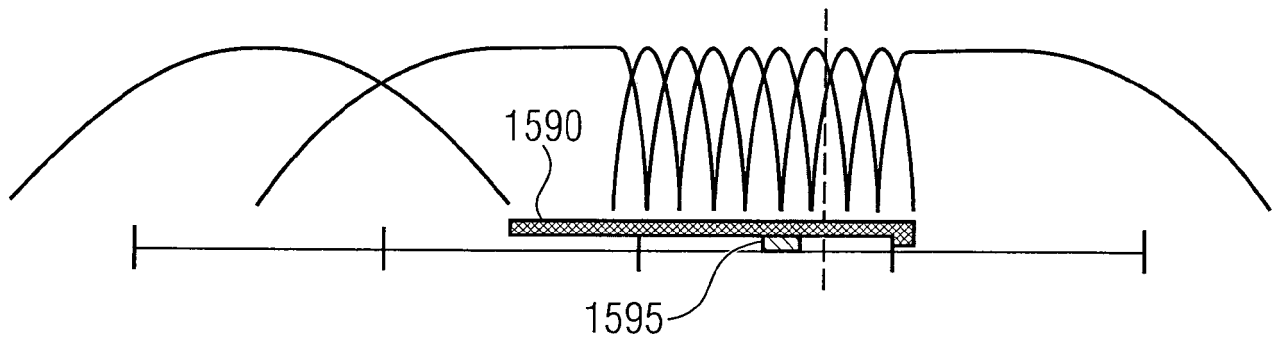


FIG 15A

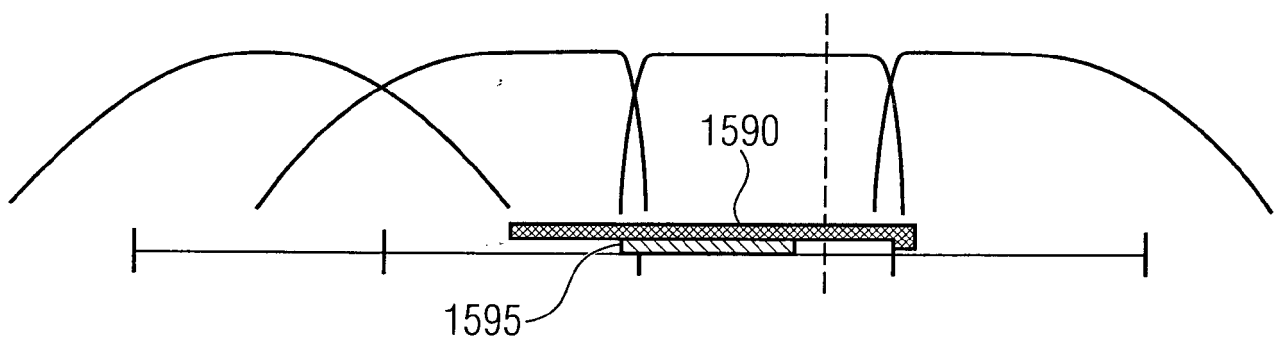


FIG 15B

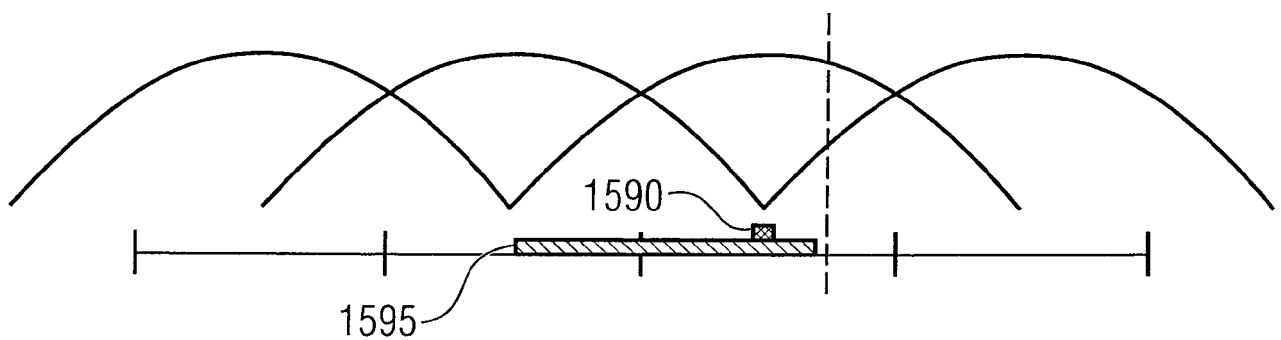


FIG 15C

30/32

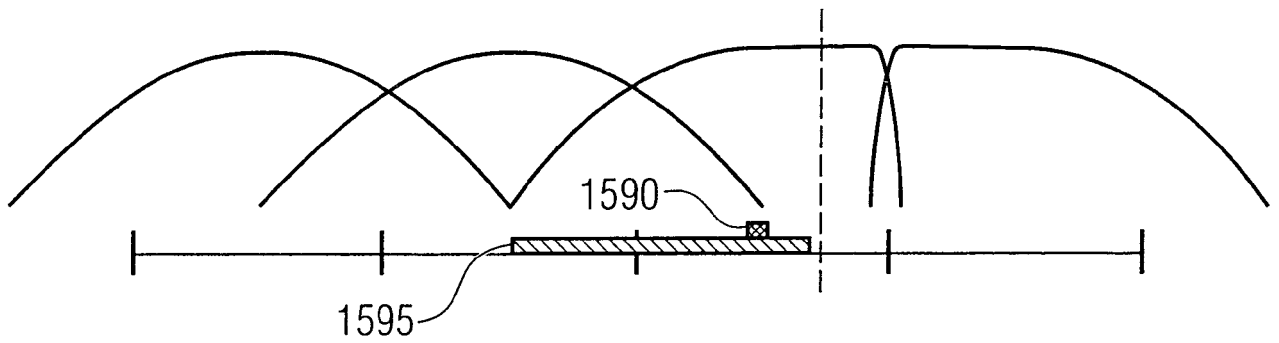


FIG 15D

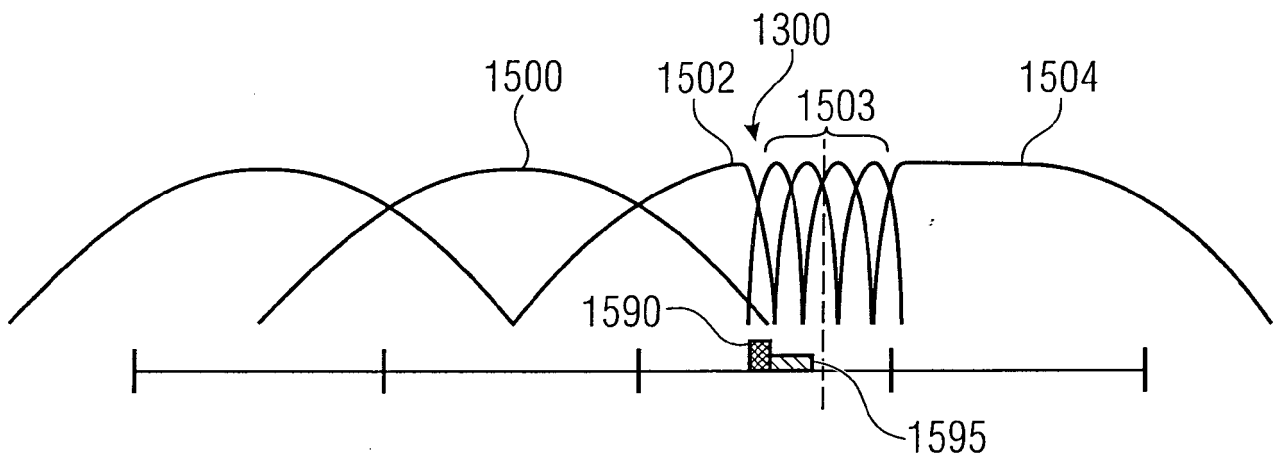


FIG 15E

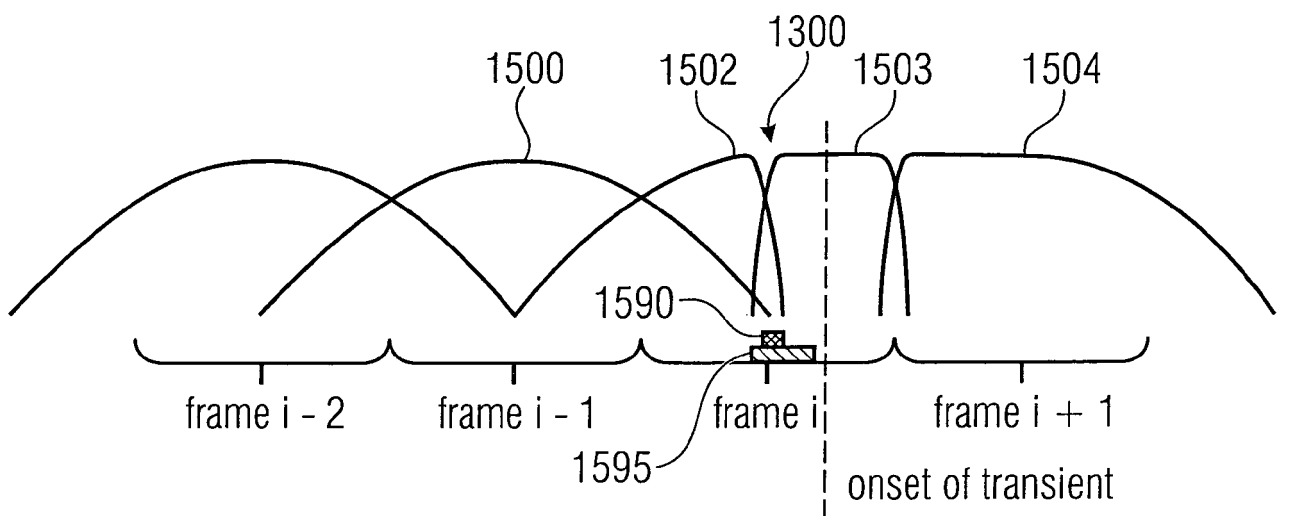


FIG 15F

31/32

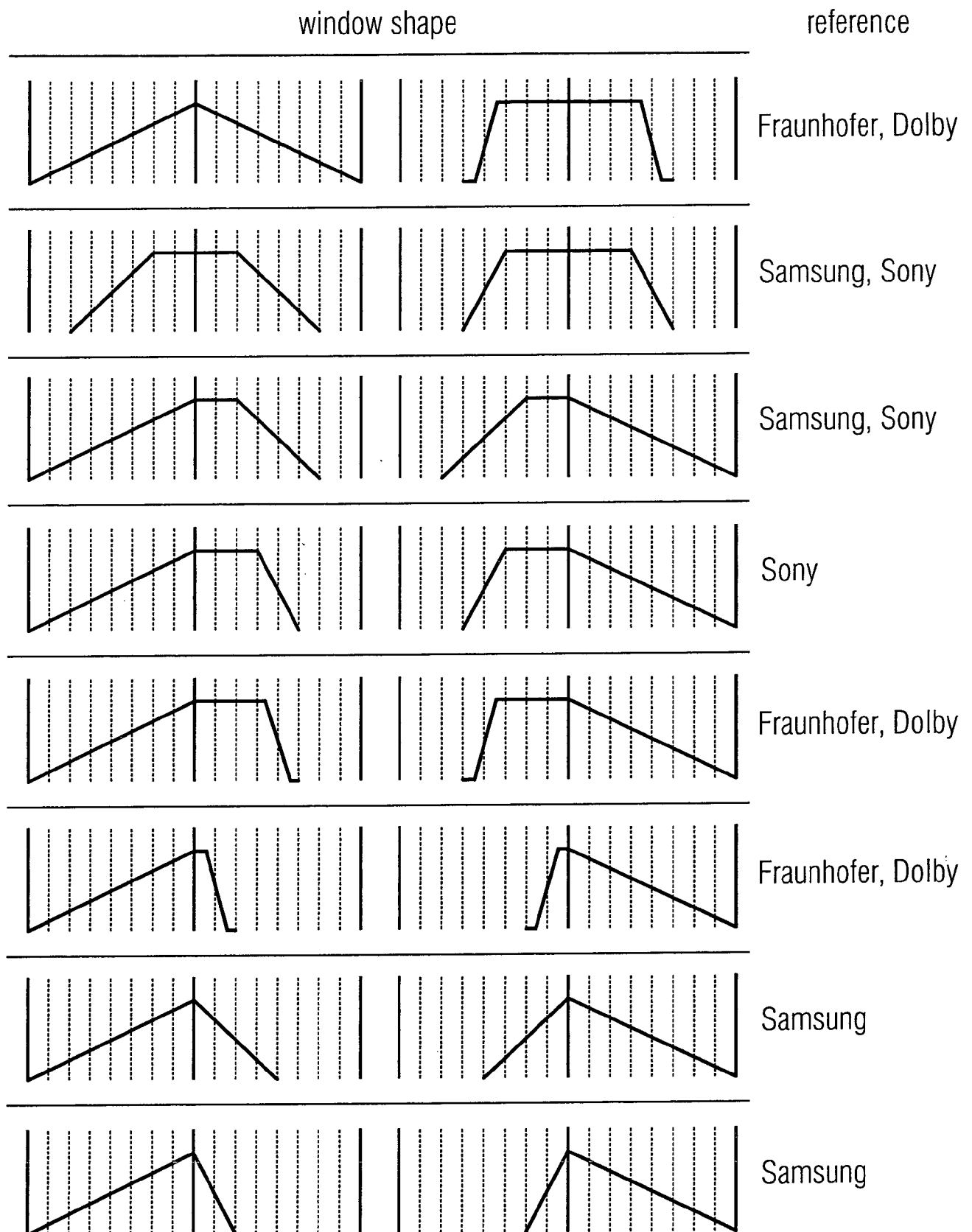


FIG 16
(PRIOR ART)

32/32

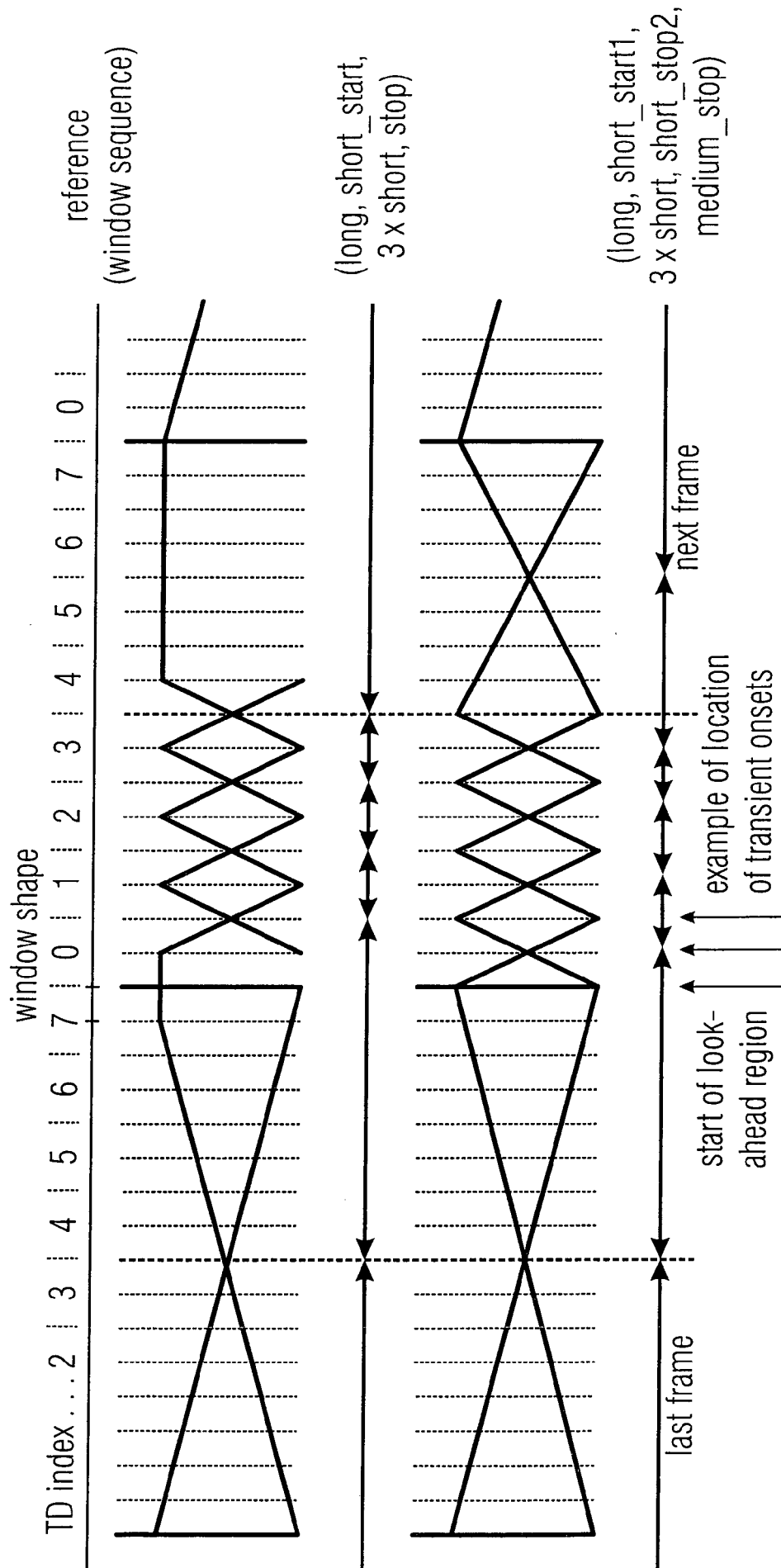


FIG 17