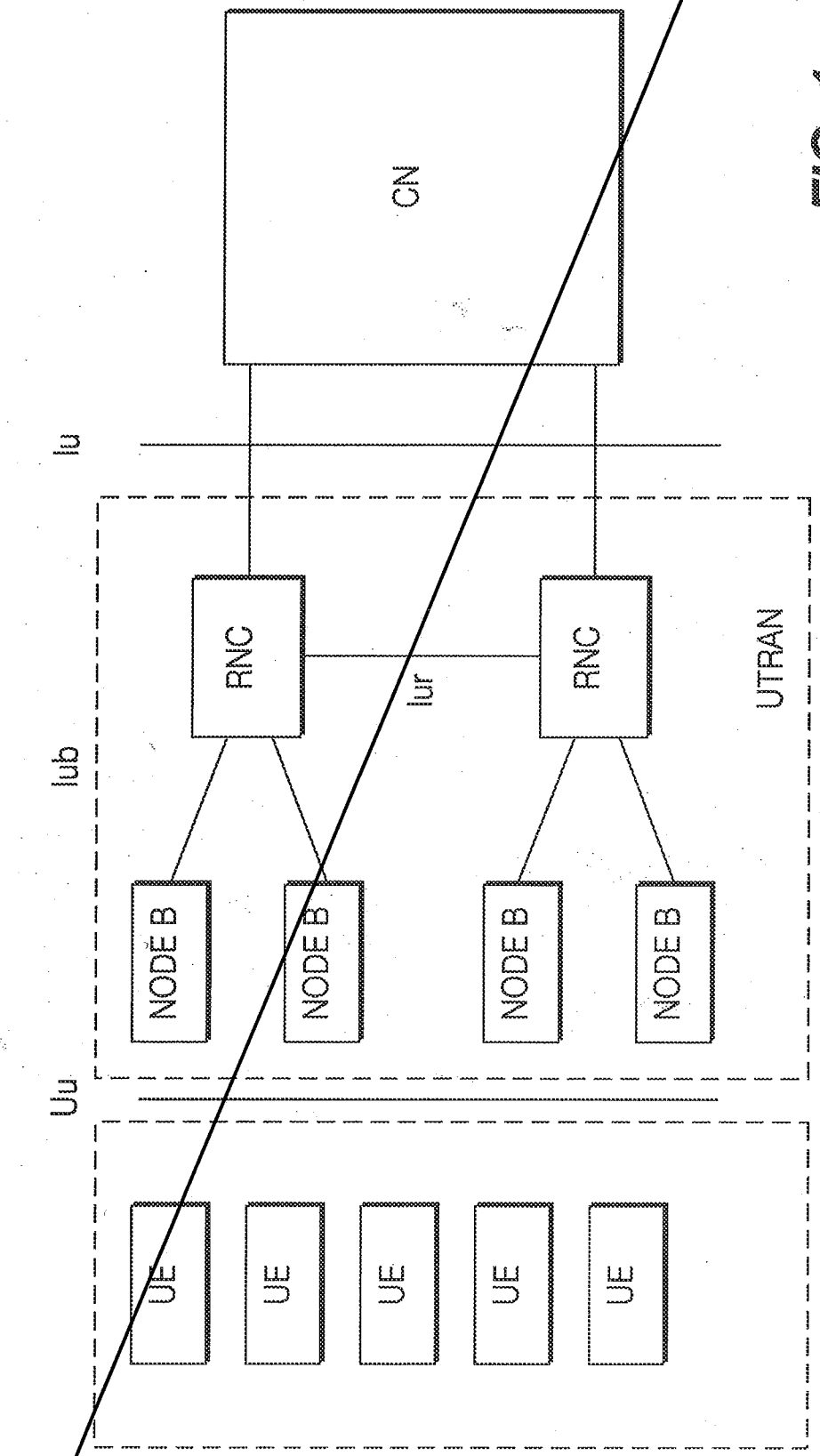


FIG. 1
PRIOR ART

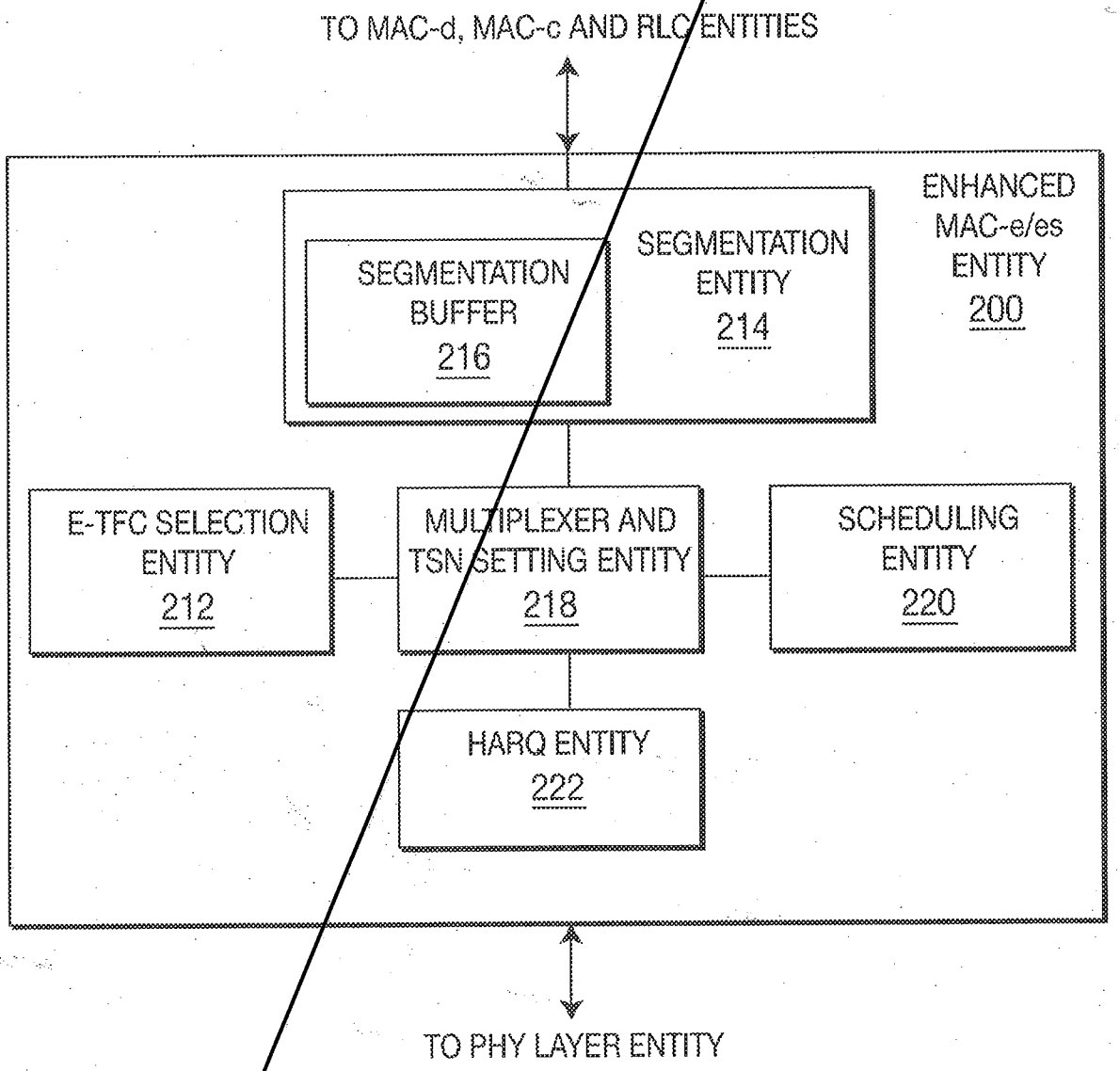

TO MAC-d, MAC-c AND RLC ENTITIES
ENHANCED MAC-e/es ENTITY 200
SEGMENTATION BUFFER 216
SEGMENTATION ENTITY 214
E-TFC SELECTION ENTITY 212
MULTIPLEXER AND TSN SETTING ENTITY 218
SCHEDULING ENTITY 220
HARQ ENTITY 222
TO PHY LAYER ENTITY

FIG. 2

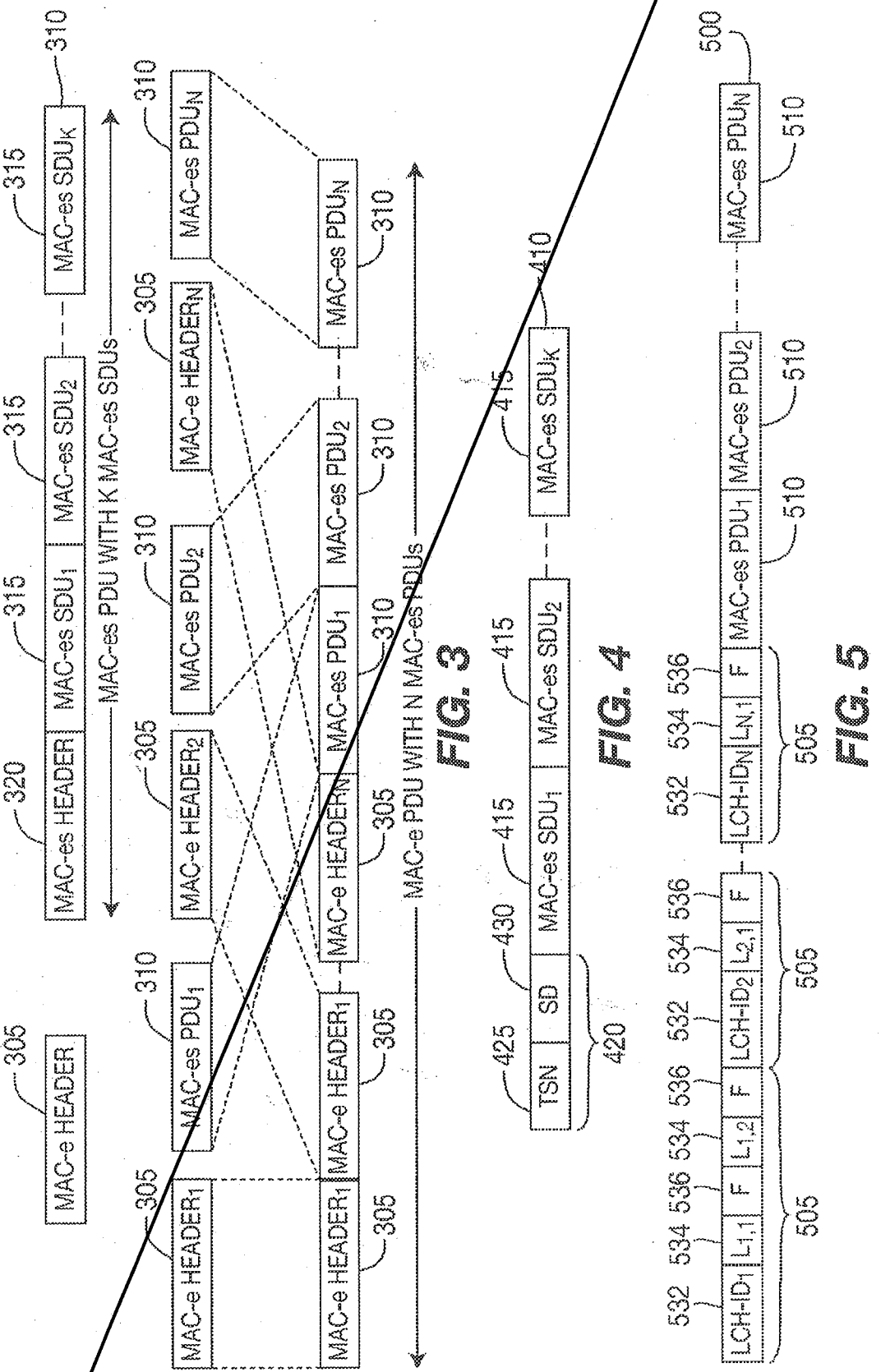


FIG. 3

FIG. 4

FIG. 5

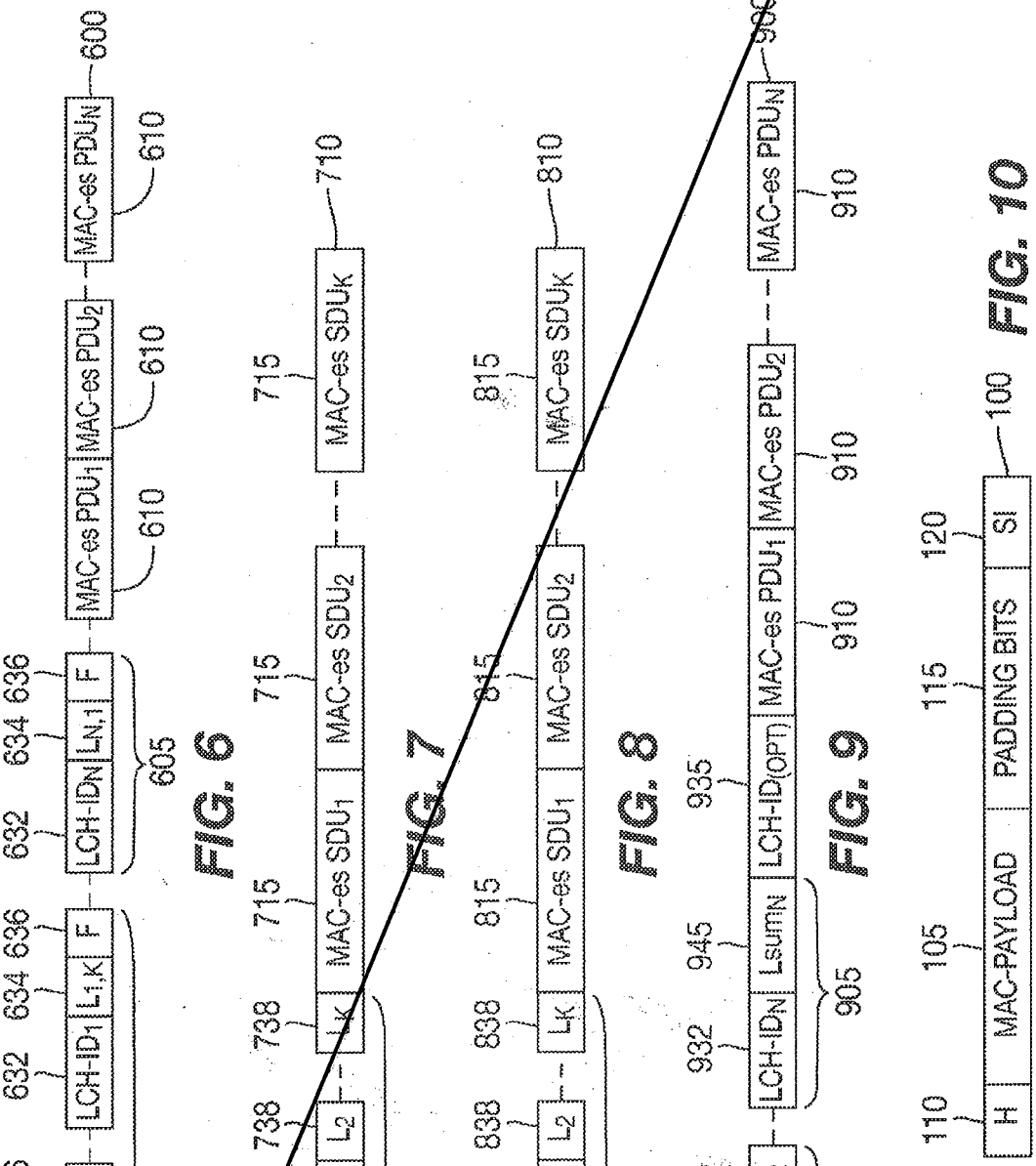


FIG. 6

FIG. 7

FIG. 8

FIG. 9

FIG. 10

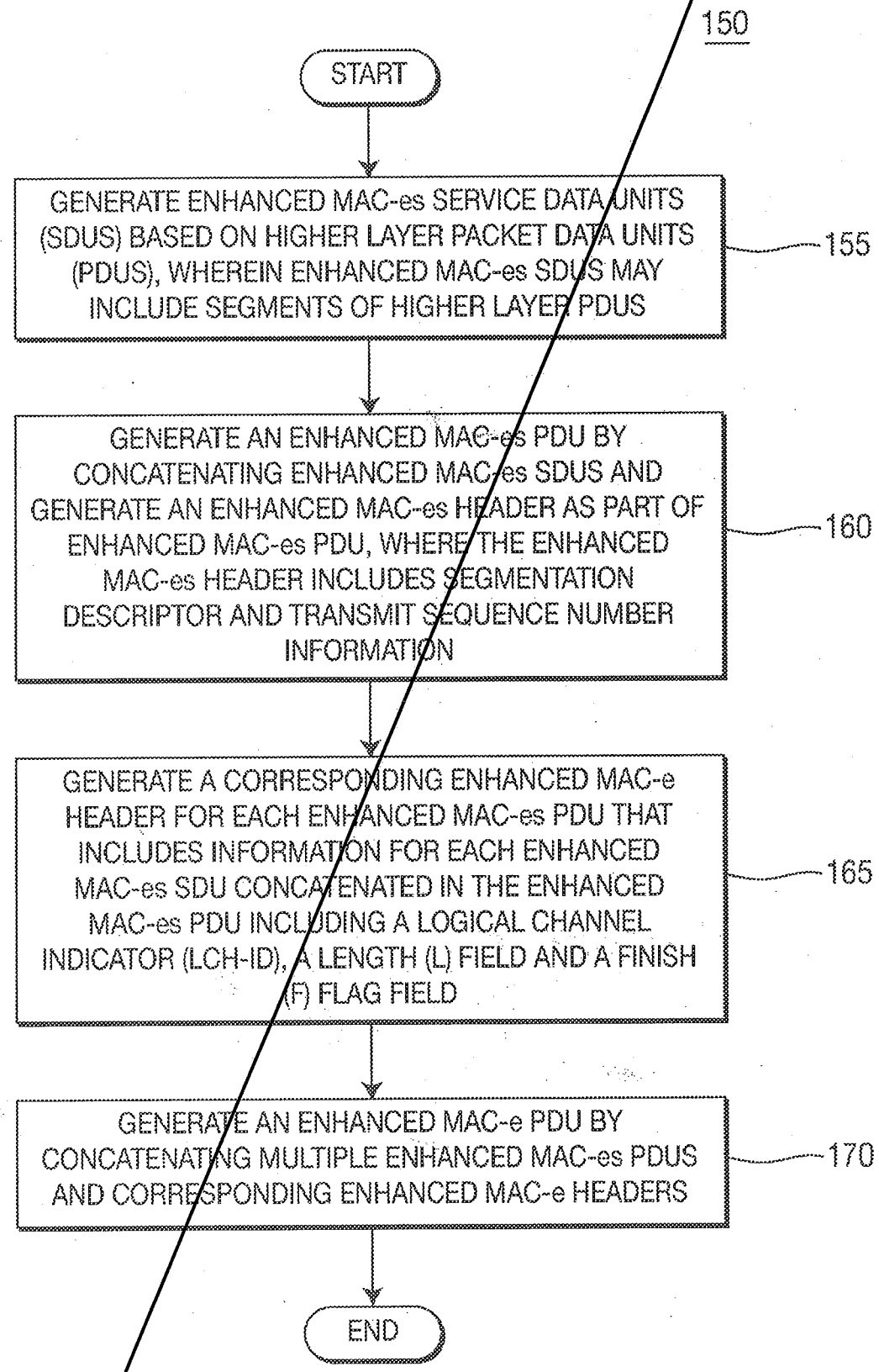

150
START
GENERATE ENHANCED MAC-es SERVICE DATA UNITS (SDUS) BASED ON HIGHER LAYER PACKET DATA UNITS (PDUS), WHEREIN ENHANCED MAC-es SDUS MAY INCLUDE SEGMENTS OF HIGHER LAYER PDUS
155
GENERATE AN ENHANCED MAC-es PDU BY CONCATENATING ENHANCED MAC-es SDUS AND GENERATE AN ENHANCED MAC-es HEADER AS PART OF ENHANCED MAC-es PDU, WHERE THE ENHANCED MAC-es HEADER INCLUDES SEGMENTATION DESCRIPTOR AND TRANSMIT SEQUENCE NUMBER INFORMATION
160
GENERATE A CORRESPONDING ENHANCED MAC-e HEADER FOR EACH ENHANCED MAC-es PDU THAT INCLUDES INFORMATION FOR EACH ENHANCED MAC-es SDU CONCATENATED IN THE ENHANCED MAC-es PDU INCLUDING A LOGICAL CHANNEL INDICATOR (LCH-ID), A LENGTH (L) FIELD AND A FINISH (F) FLAG FIELD
165
GENERATE AN ENHANCED MAC-e PDU BY CONCATENATING MULTIPLE ENHANCED MAC-es PDUS AND CORRESPONDING ENHANCED MAC-e HEADERS
170
END

FIG. 11

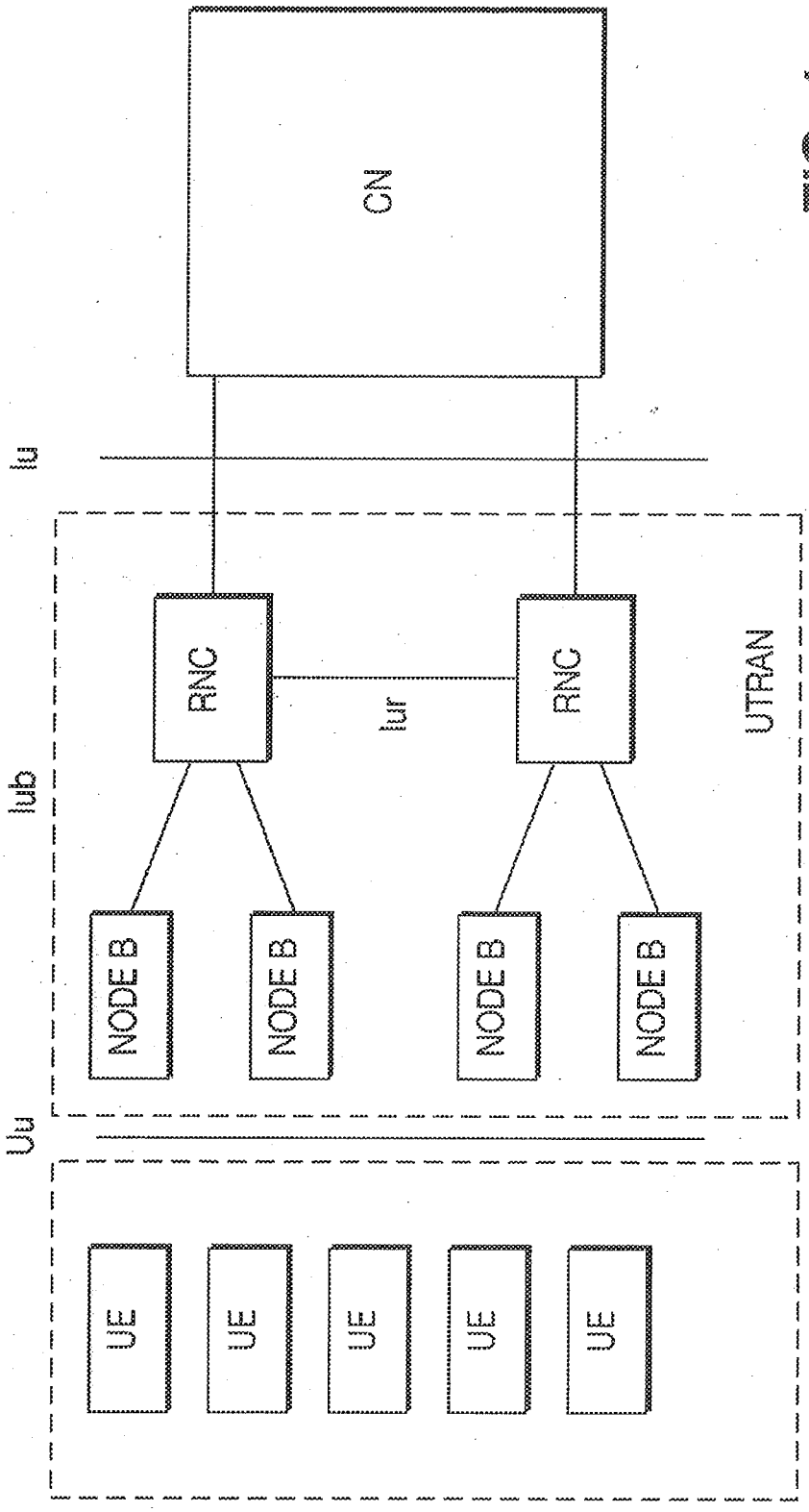


FIG. 1
PRIOR ART

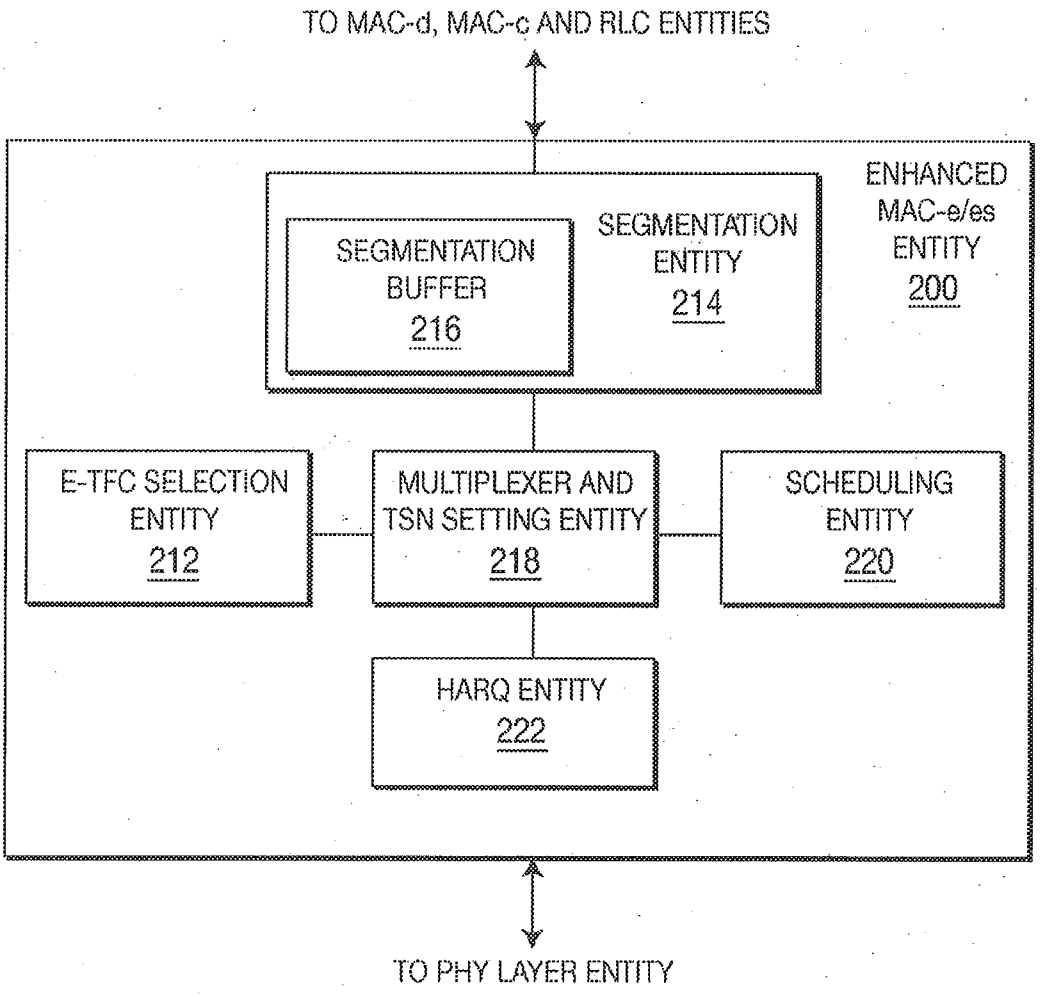

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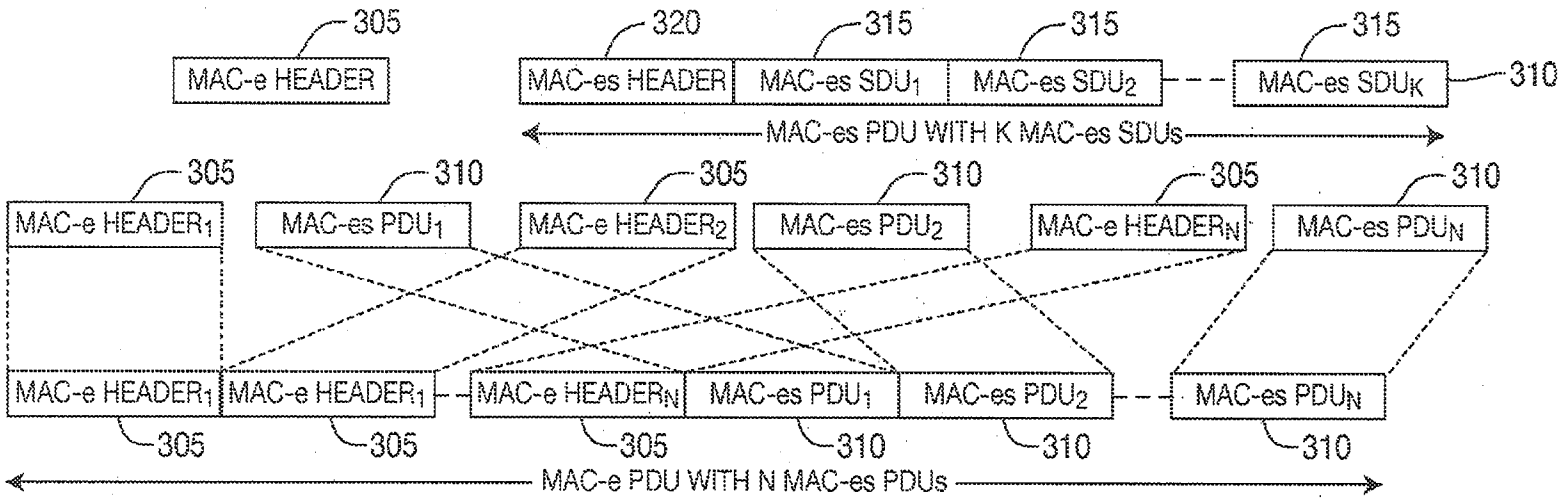


FIG. 3

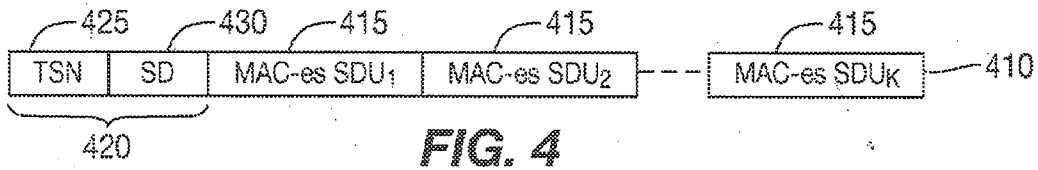


FIG. 4

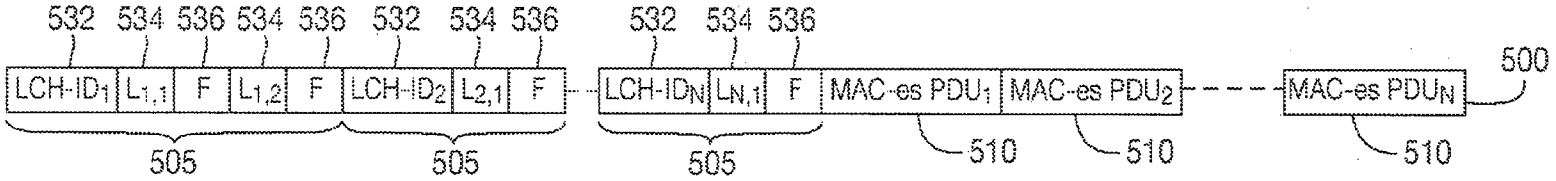


FIG. 5

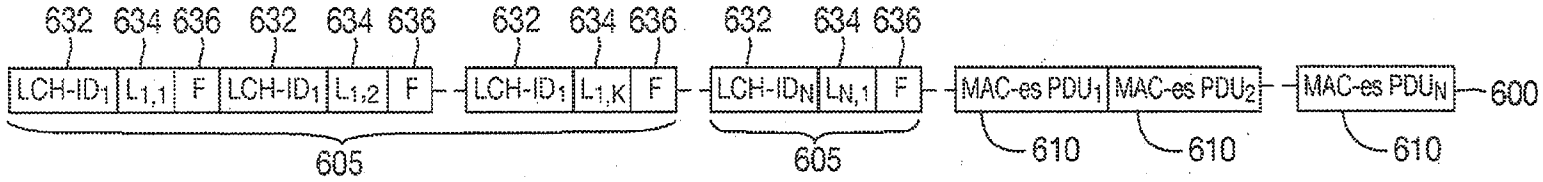


FIG. 6

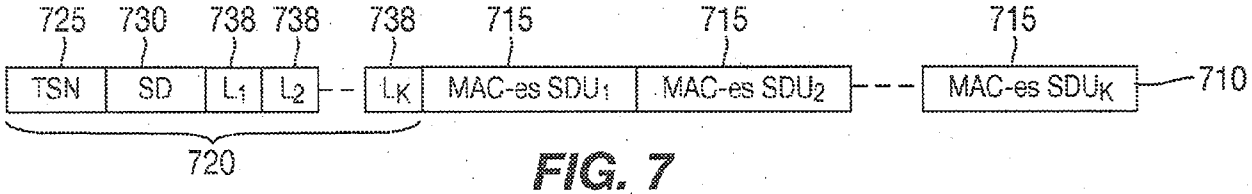


FIG. 7

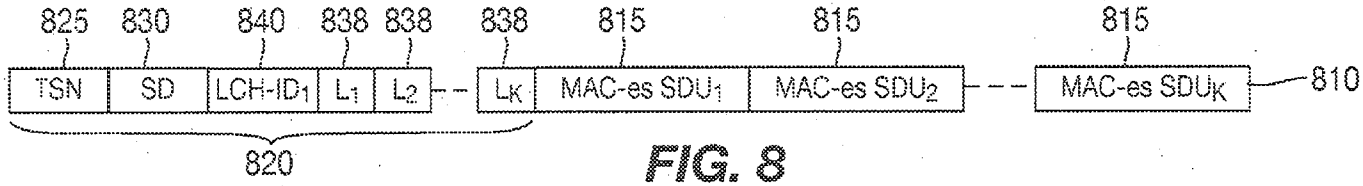


FIG. 8

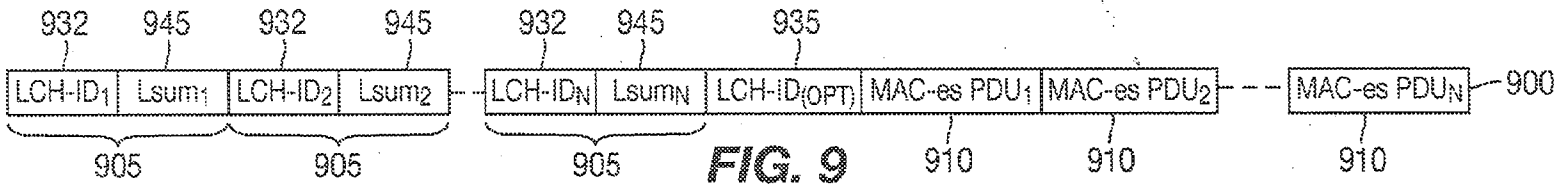


FIG. 9



FIG. 10

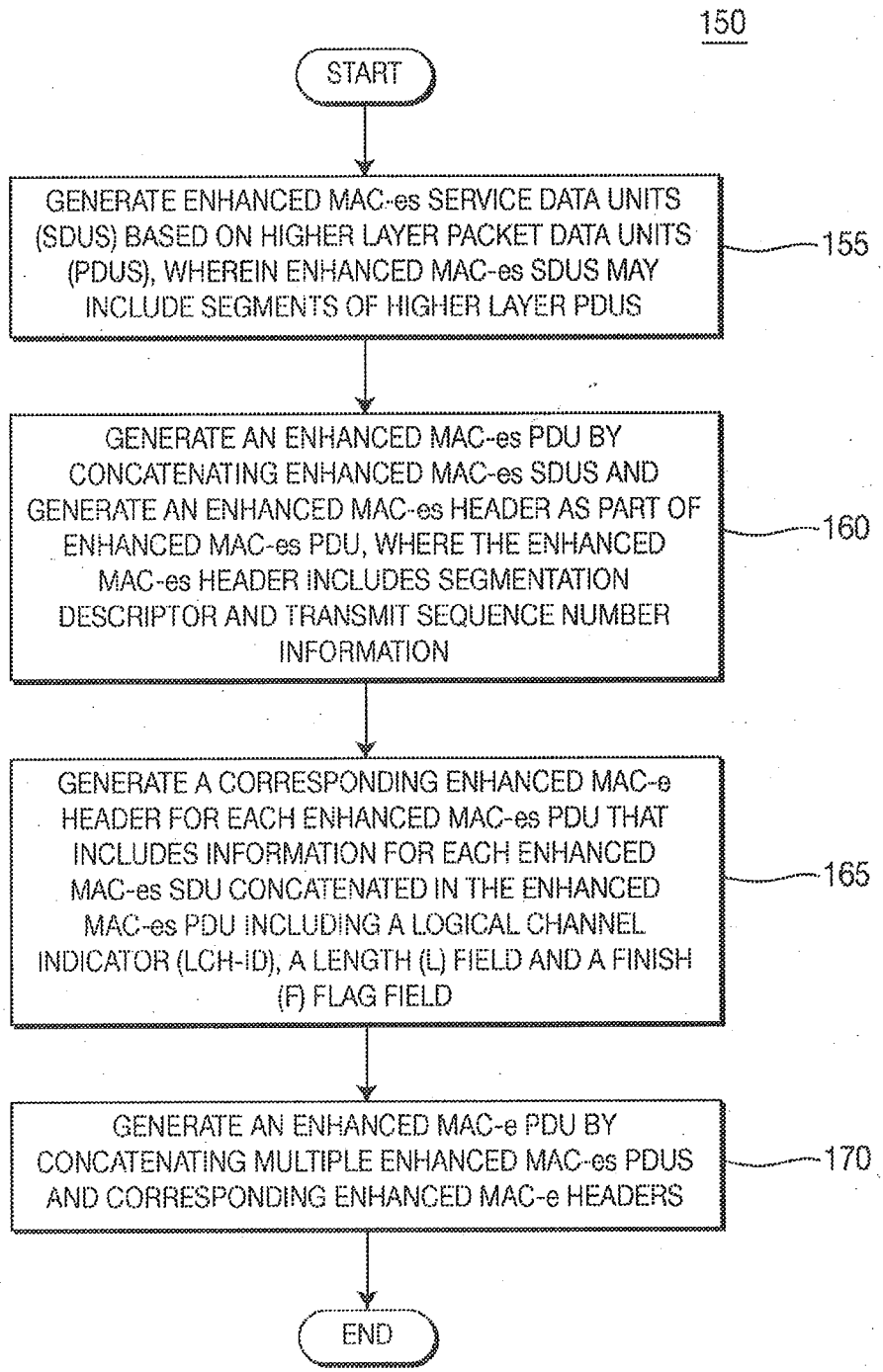

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FIG. 11