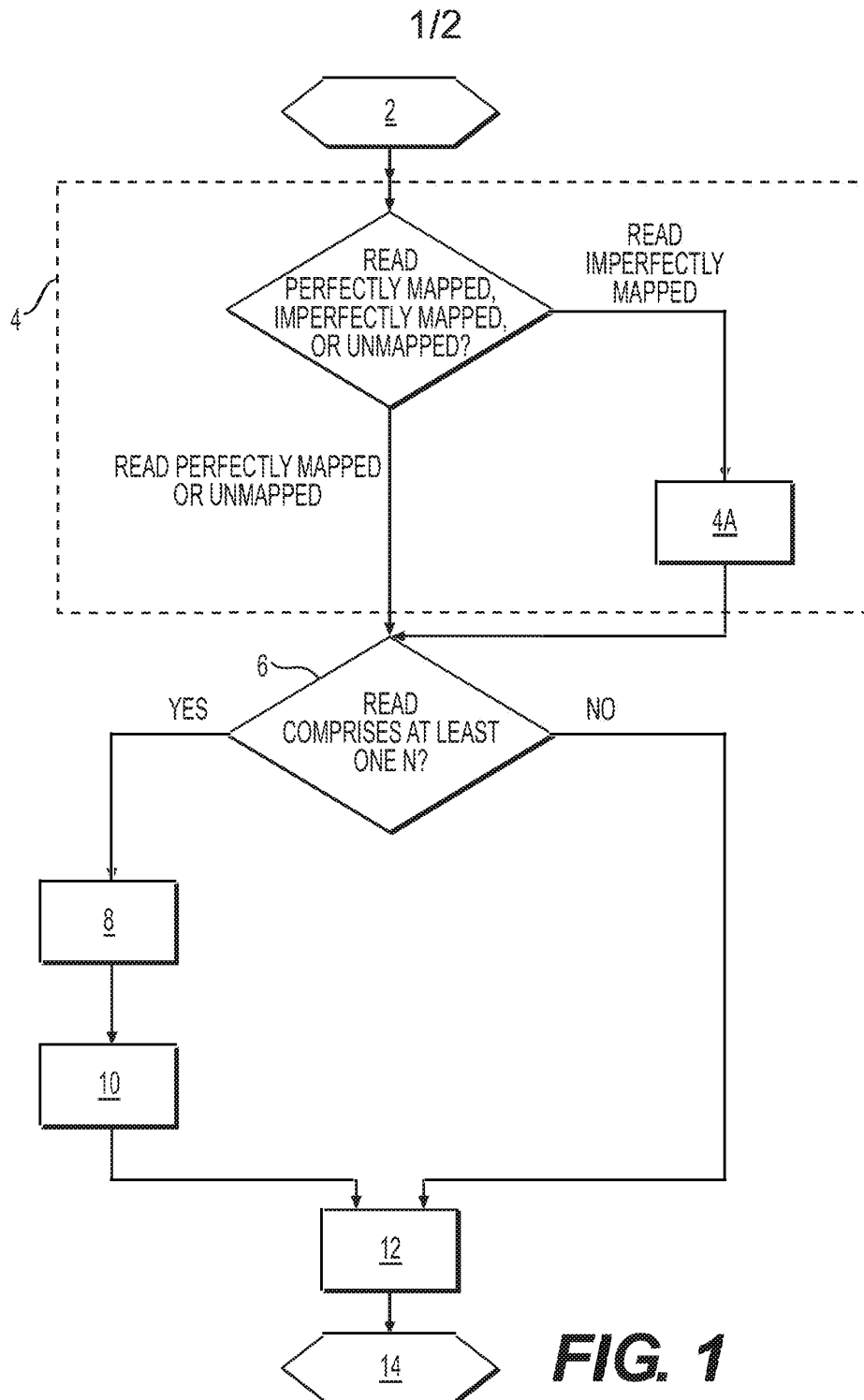




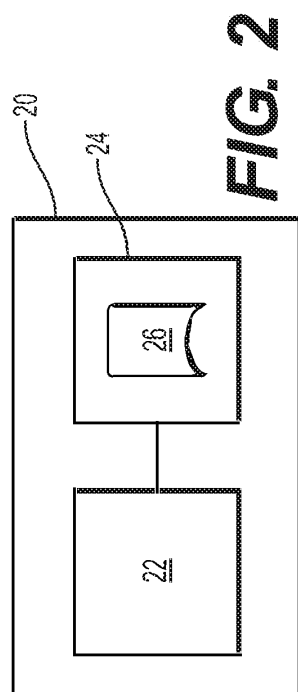


FIG. 2

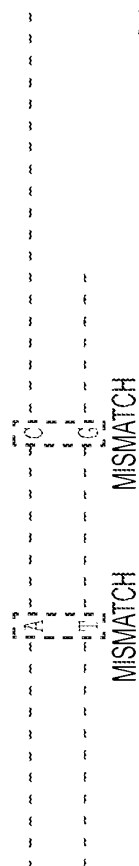
CASE 1: GLOBAL ALIGNMENT, 2 MISMATCH

REFERENCE
SEQUENCE

READ

MISMATCH LIST IS: POSITION 12: T, POSITION 21: G
ENCODED AS: <12,T>, <21,G> RESULTING IN ENCODING 51, 38

2/2

3
F/G

CASE 2: GLOBAL ALIGNMENT, MISMATCH LIST REQUIRING "FAKE MISMATCH"

REFERENCE SEQUENCE

READ

MISMATCH

MISMATCH LIST IS: POSITION 22: T, POSITION 134: G
 ENCODED AS: <22,T> <63,G> RESULTING IN ENCODING 91,255,198

"FAKE" MISMATCH

MISMATCH

49

FIG. 4