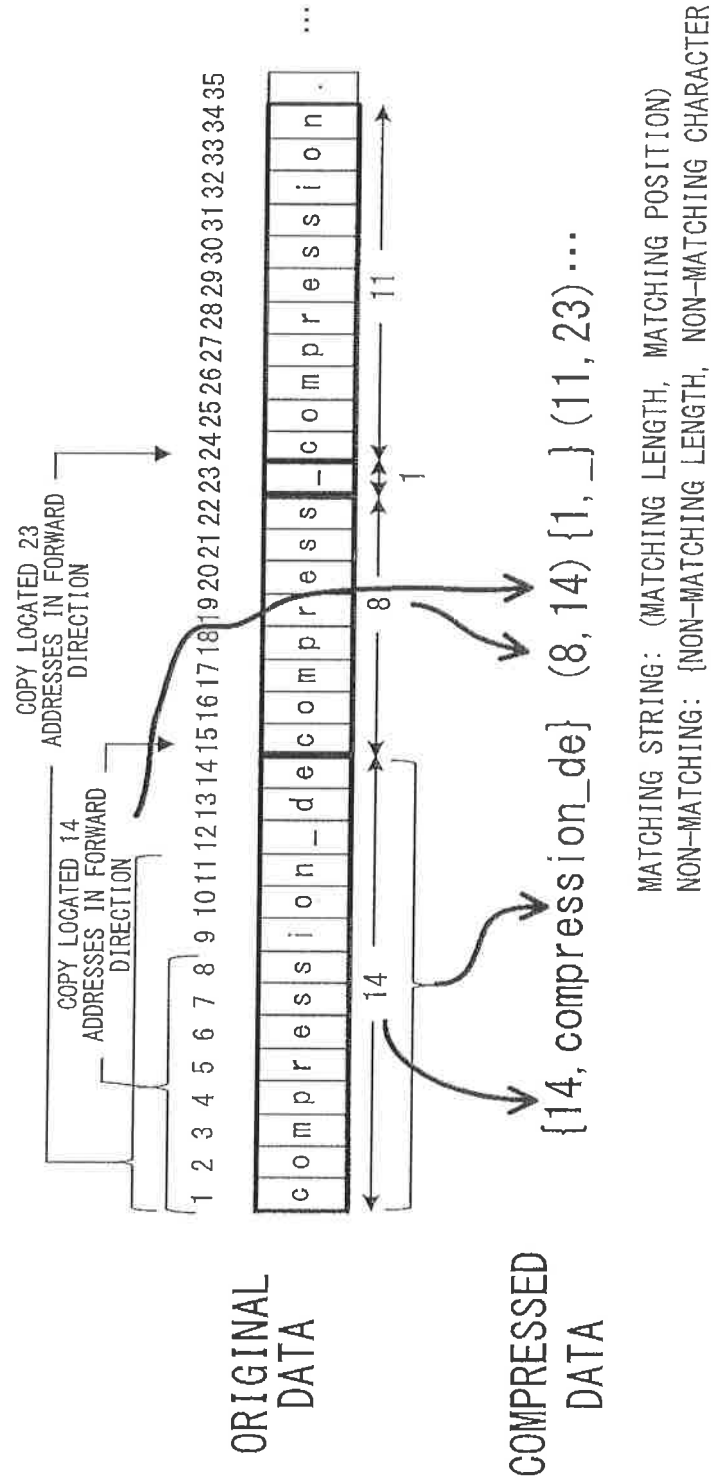




ORIGINAL
DATA

COMPRESSED
DATA

FIG. 1

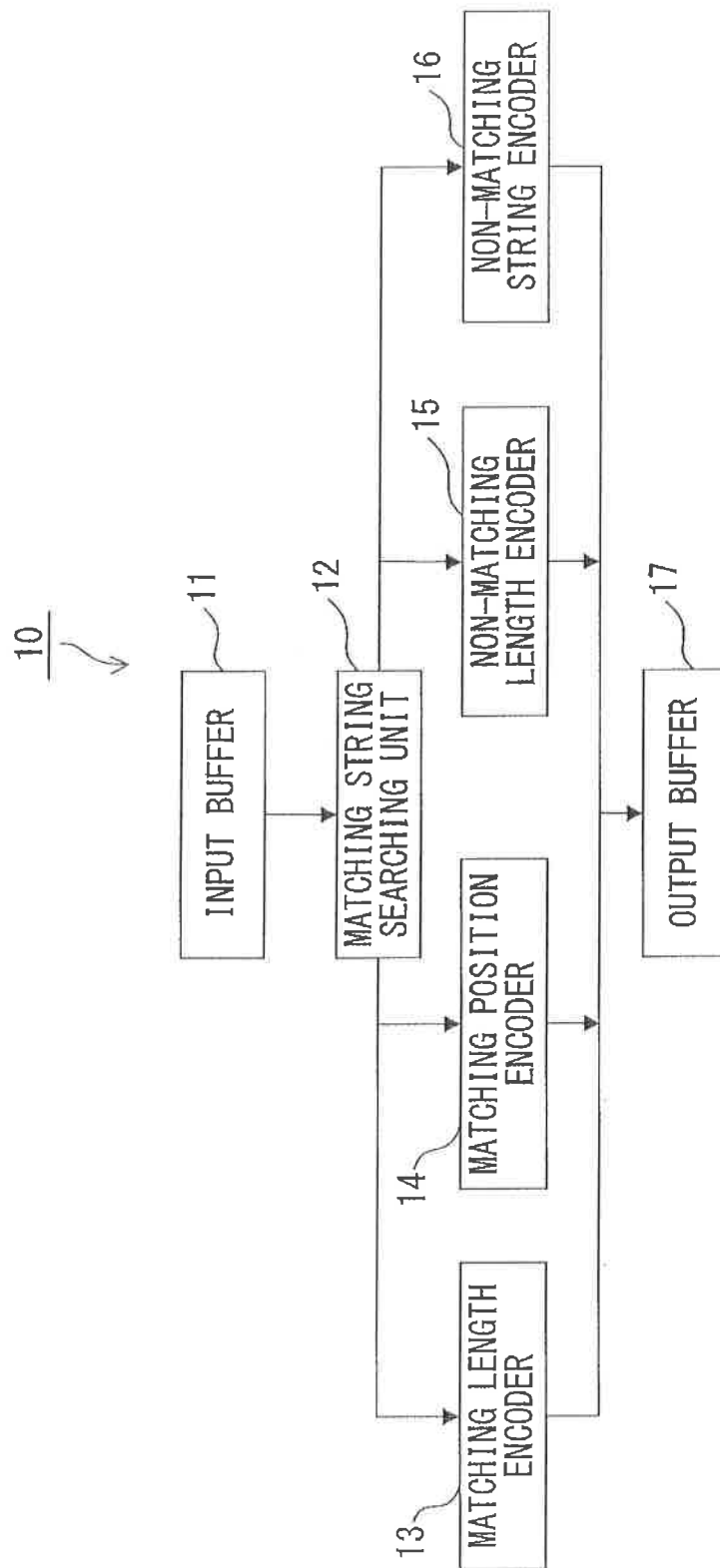


FIG. 2

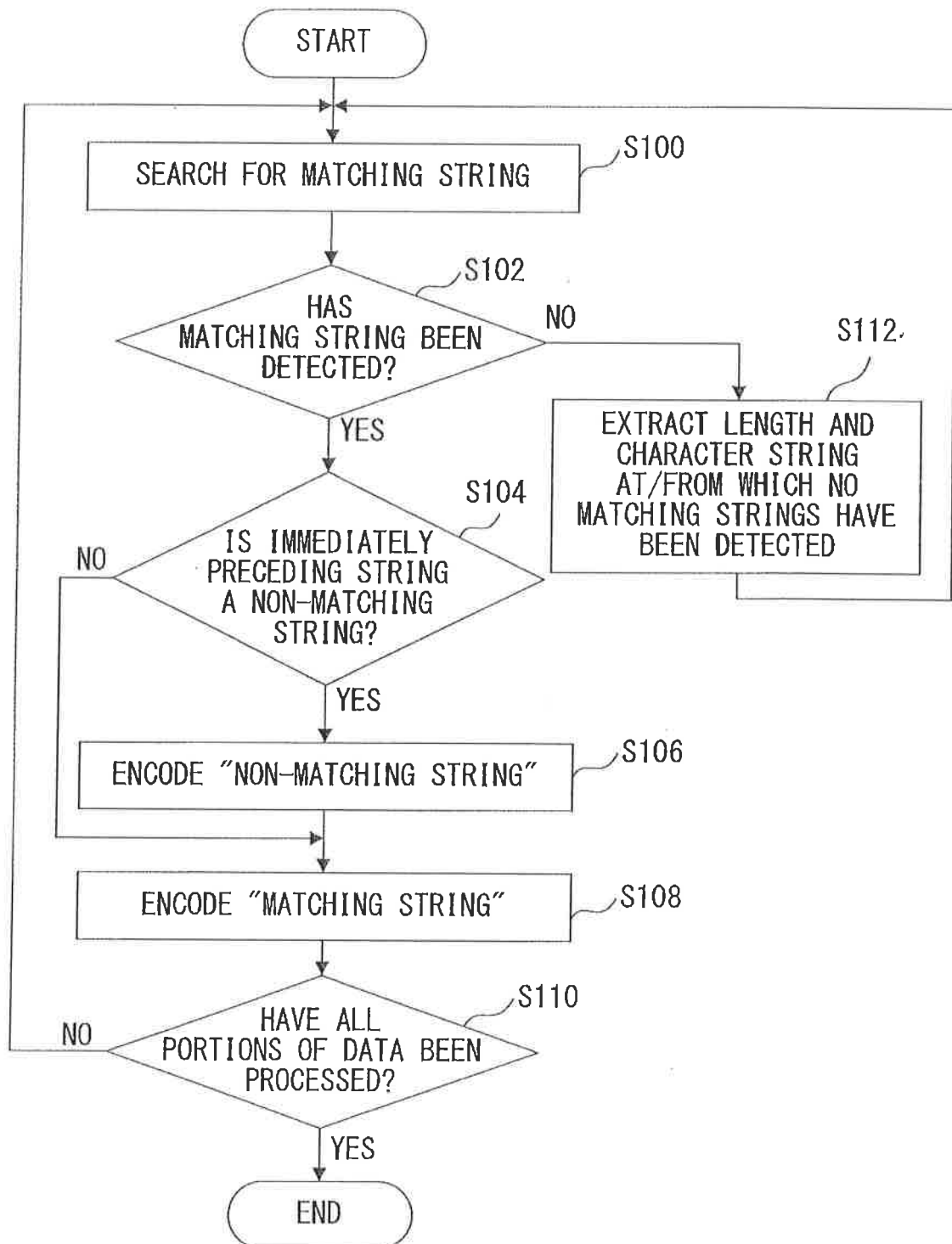
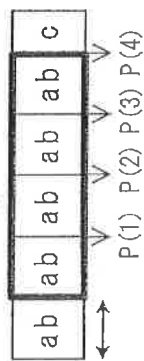


FIG. 3

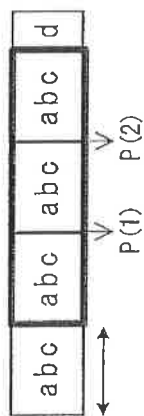
ORIGINAL DATA



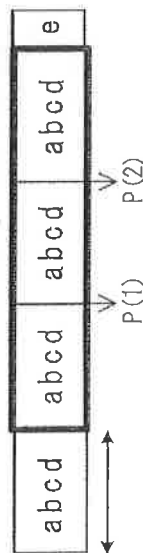
carton= 1



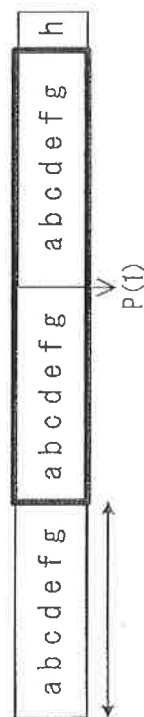
carton= 2



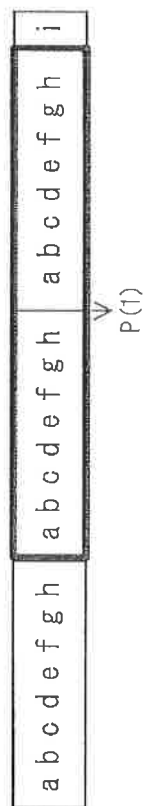
carton= 3



carton= 4



carton= 7



carton= 8

COMPRESSED DATA

{1, a} (9, 1) {1, b}

{2, ab} (10, 2) {1, c}

{3, abc} (9, 3) {1, d}

{4, abcd} (12, 4) {1, e}

{7, abcdefg} (14, 7) {1, h}

{8, abcdefgh} (16, 8) {1, i}

FIG. 4

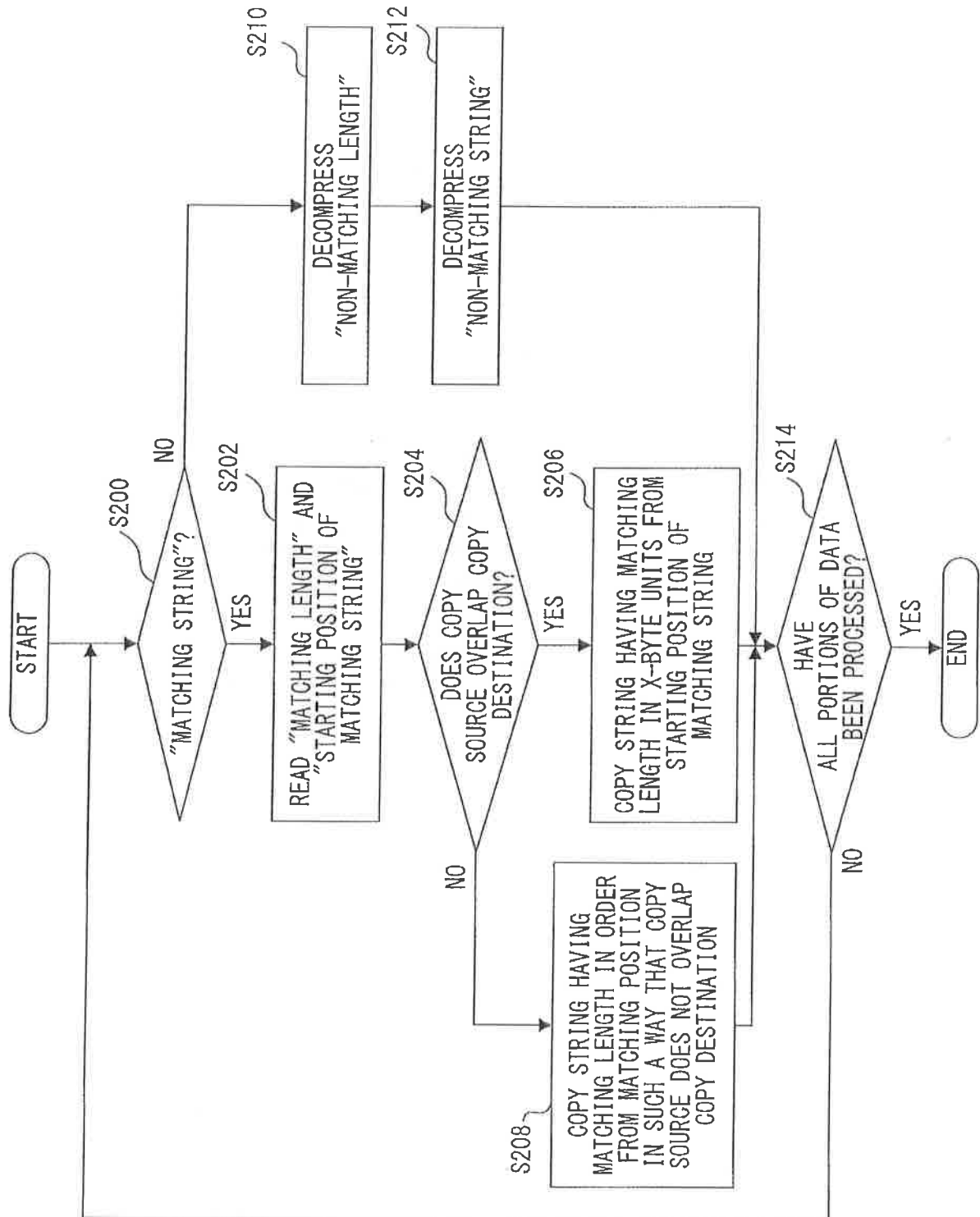


FIG. 5

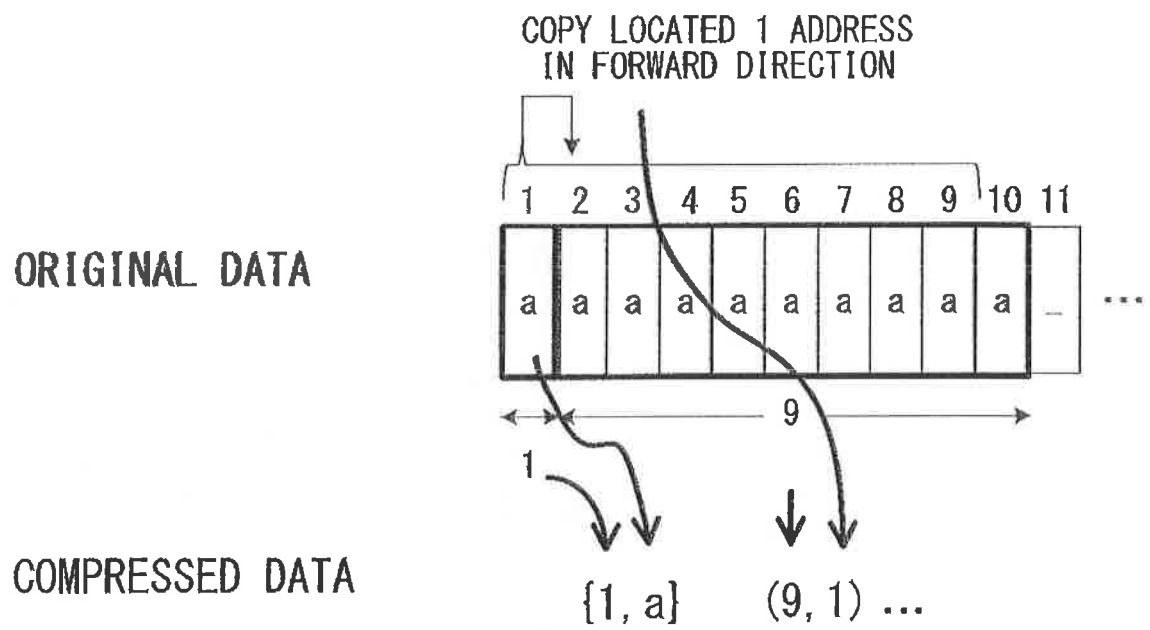
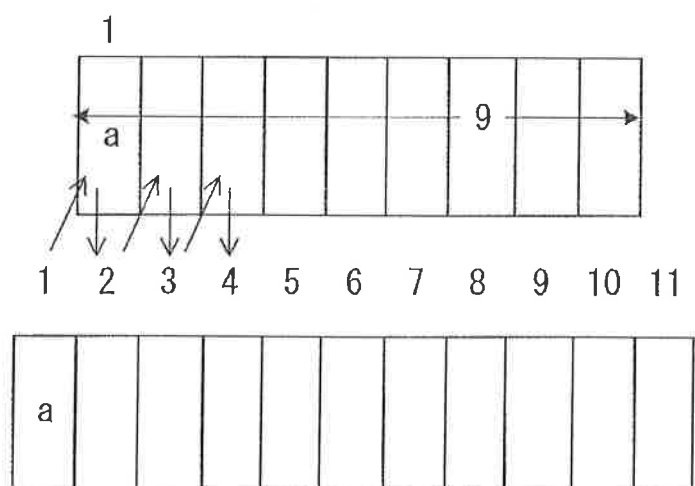


FIG. 6A



F I G. 6 B

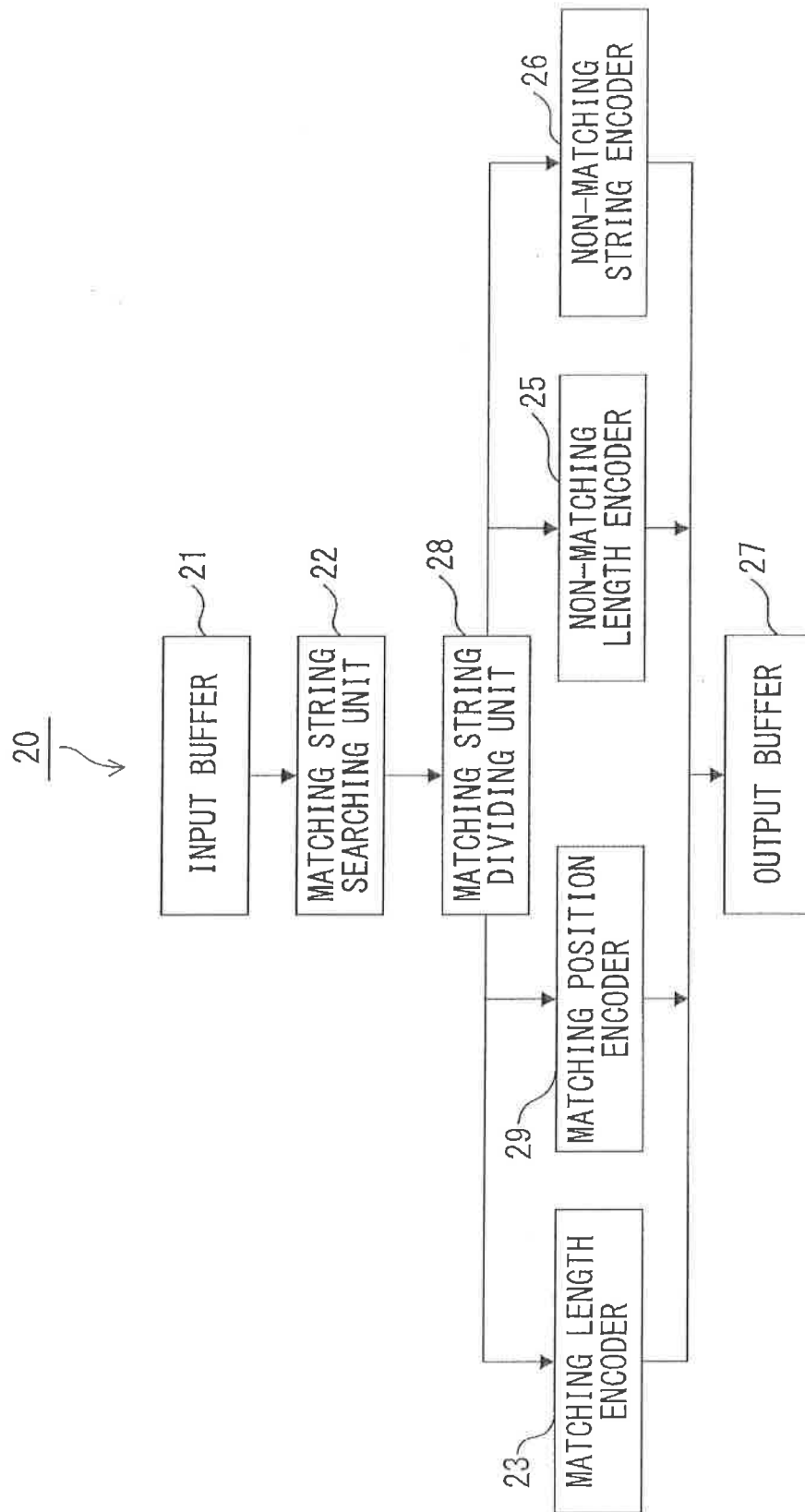


FIG. 7

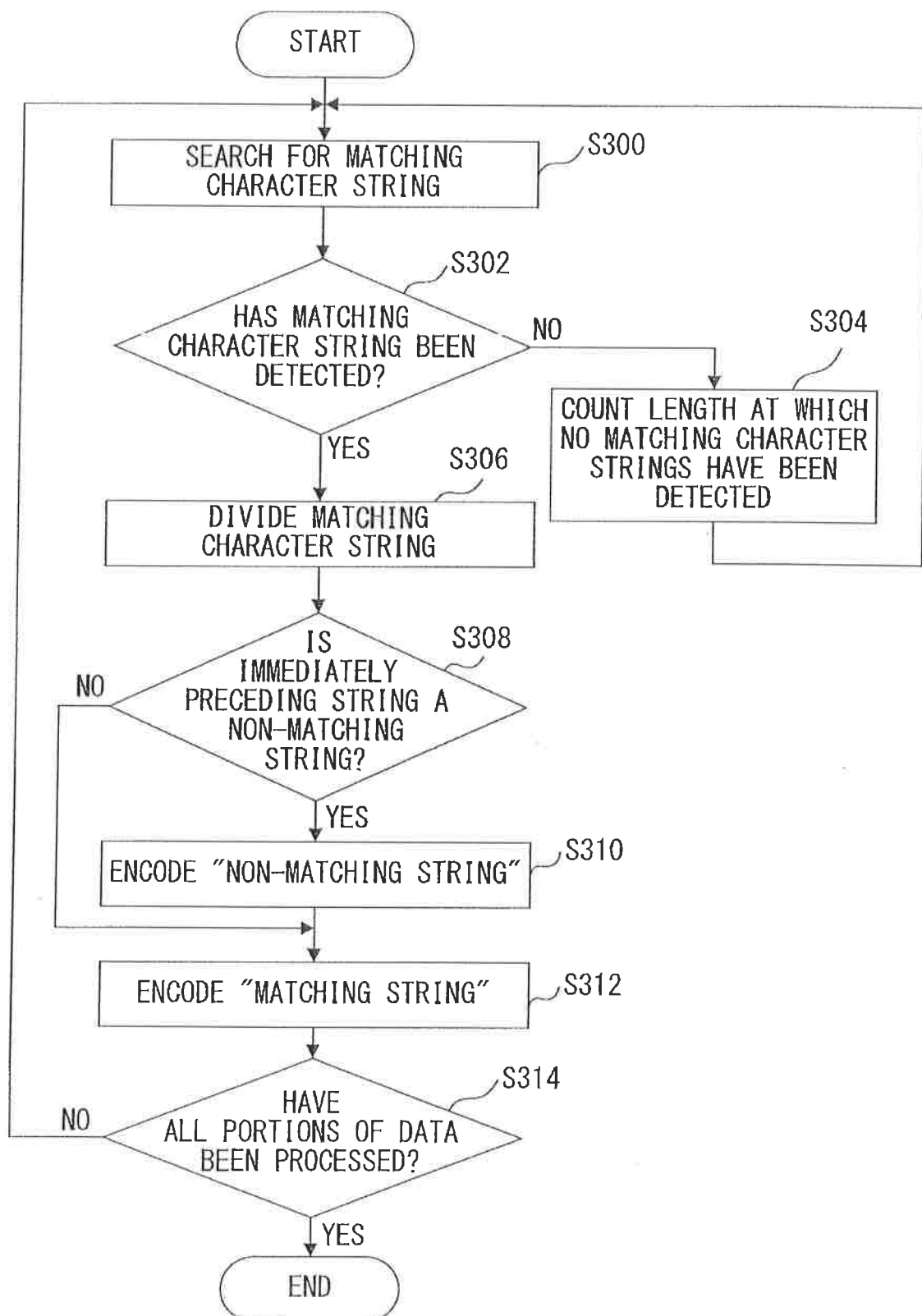


FIG. 8

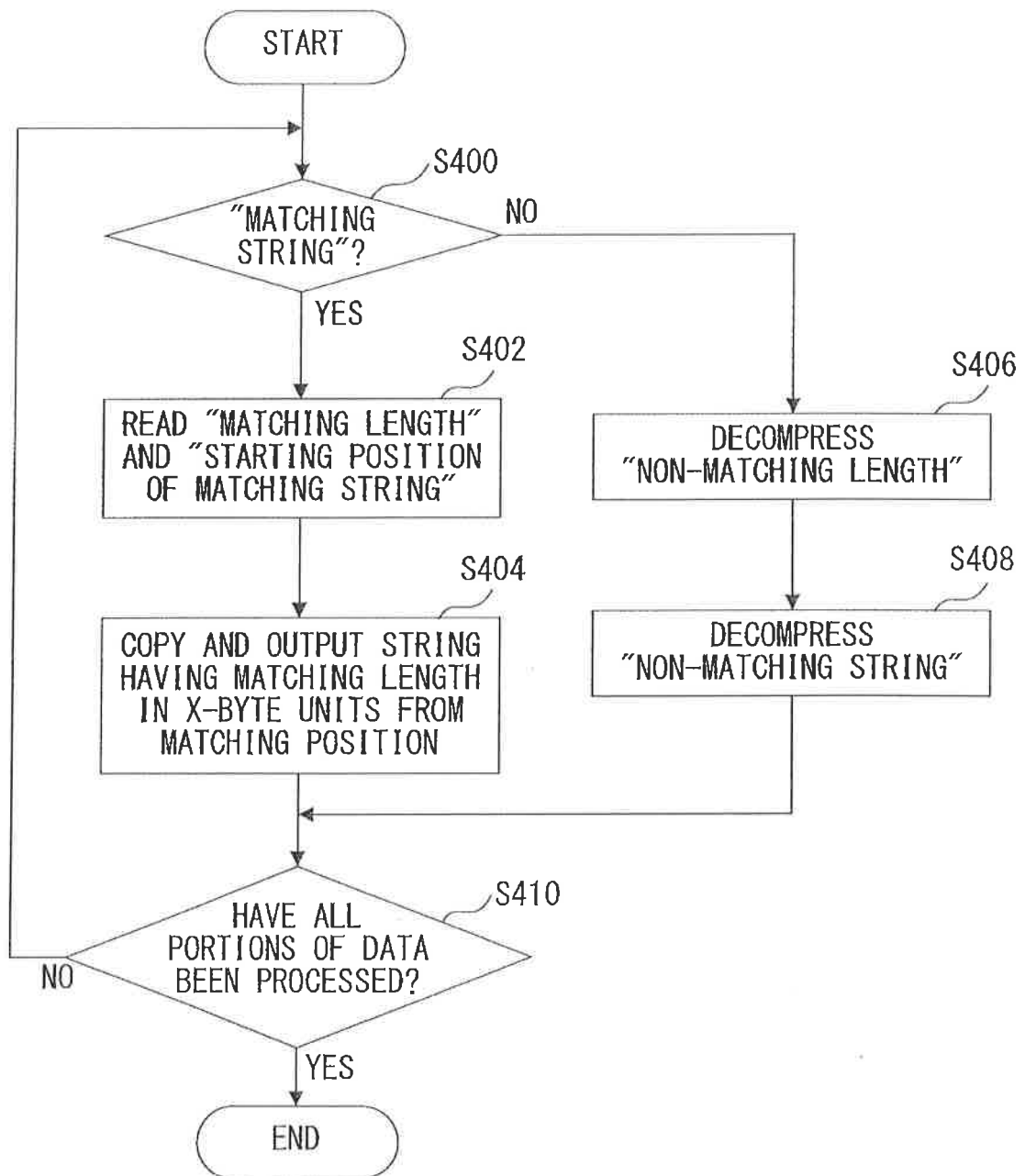


FIG. 9

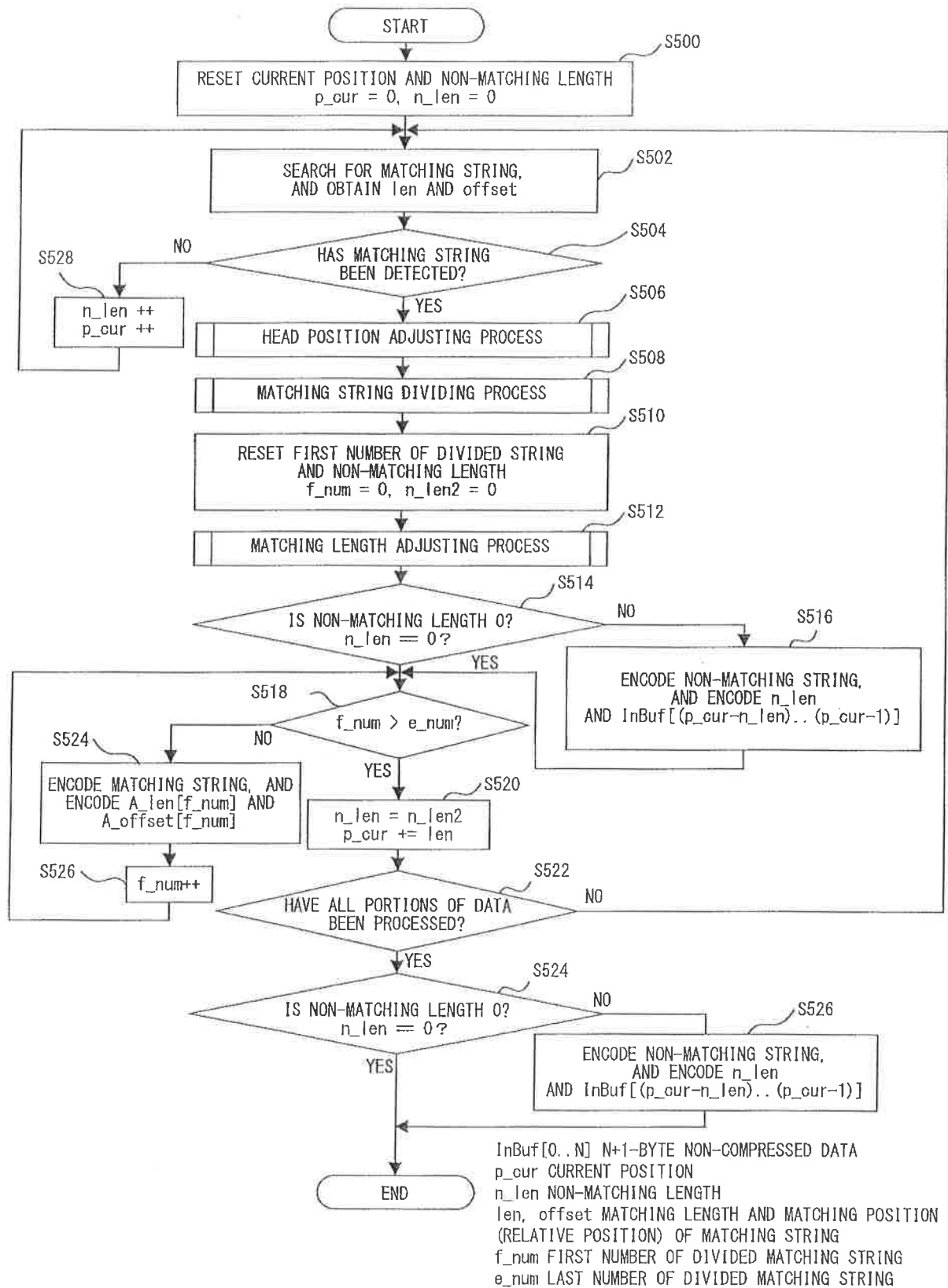


FIG. 10

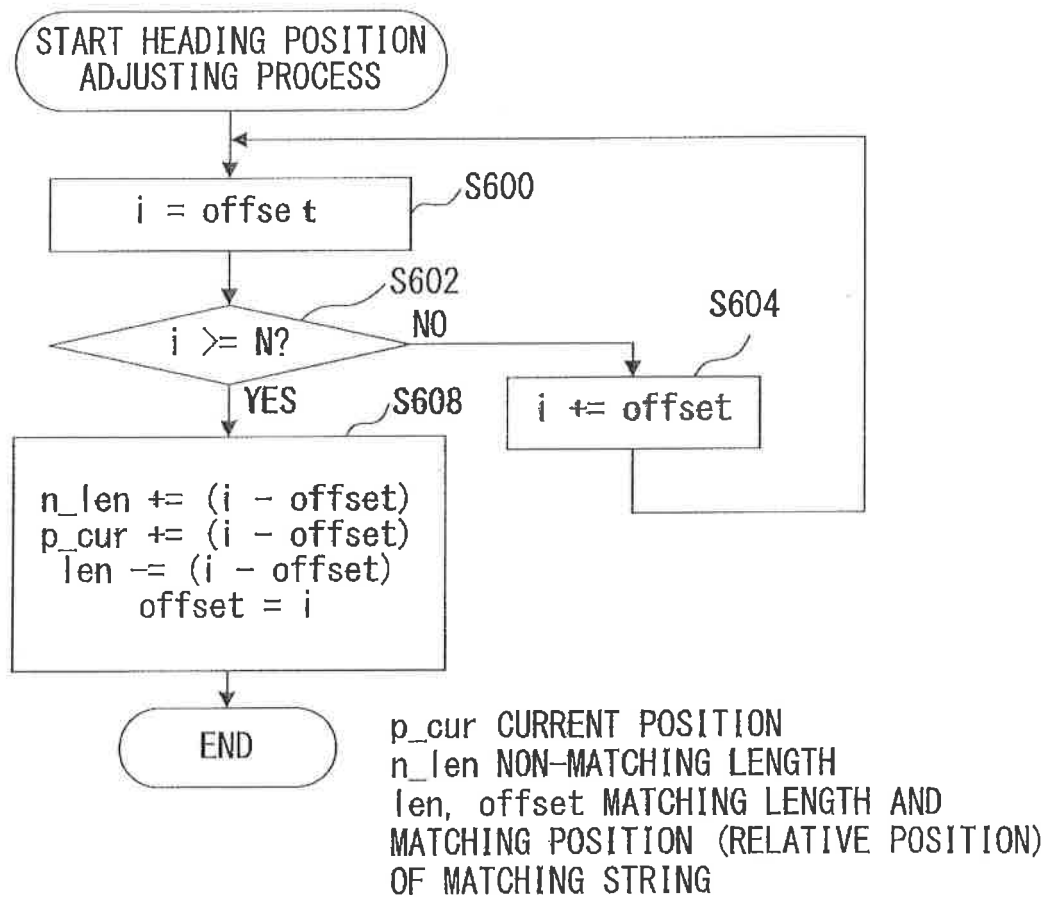


FIG. 11

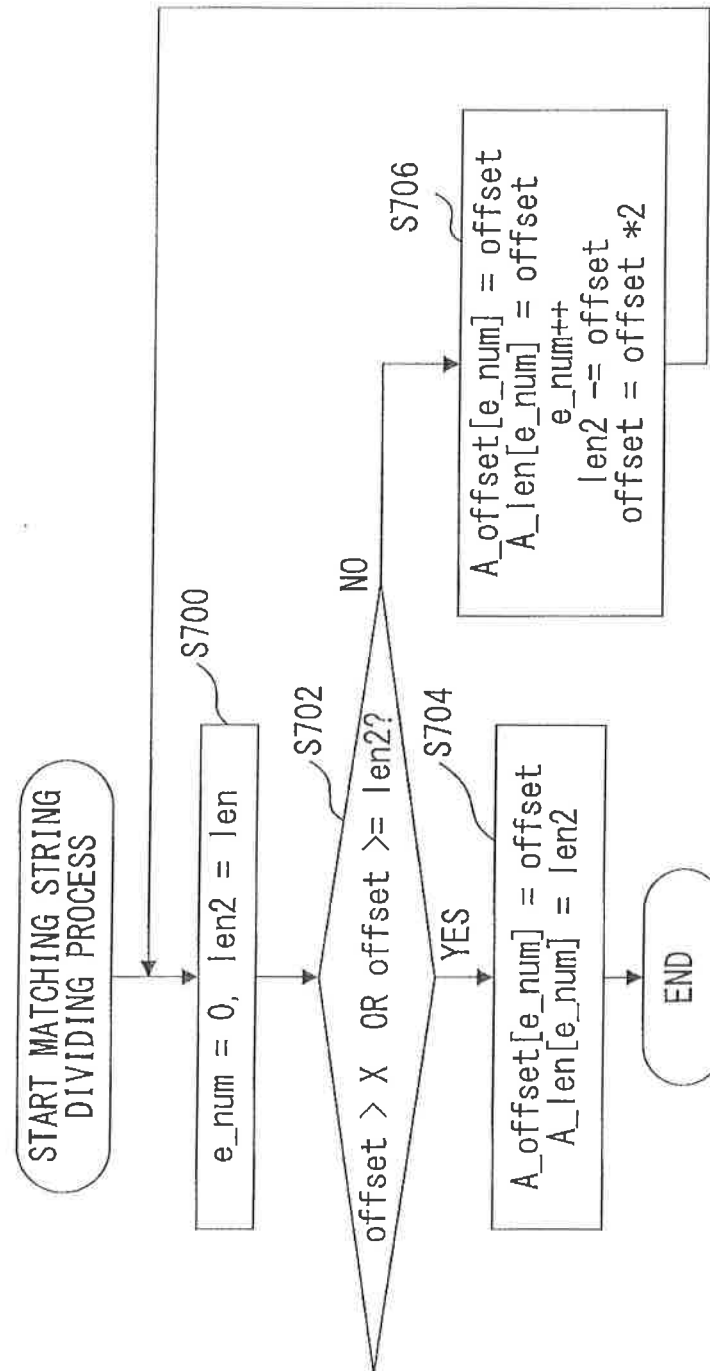


FIG. 12A

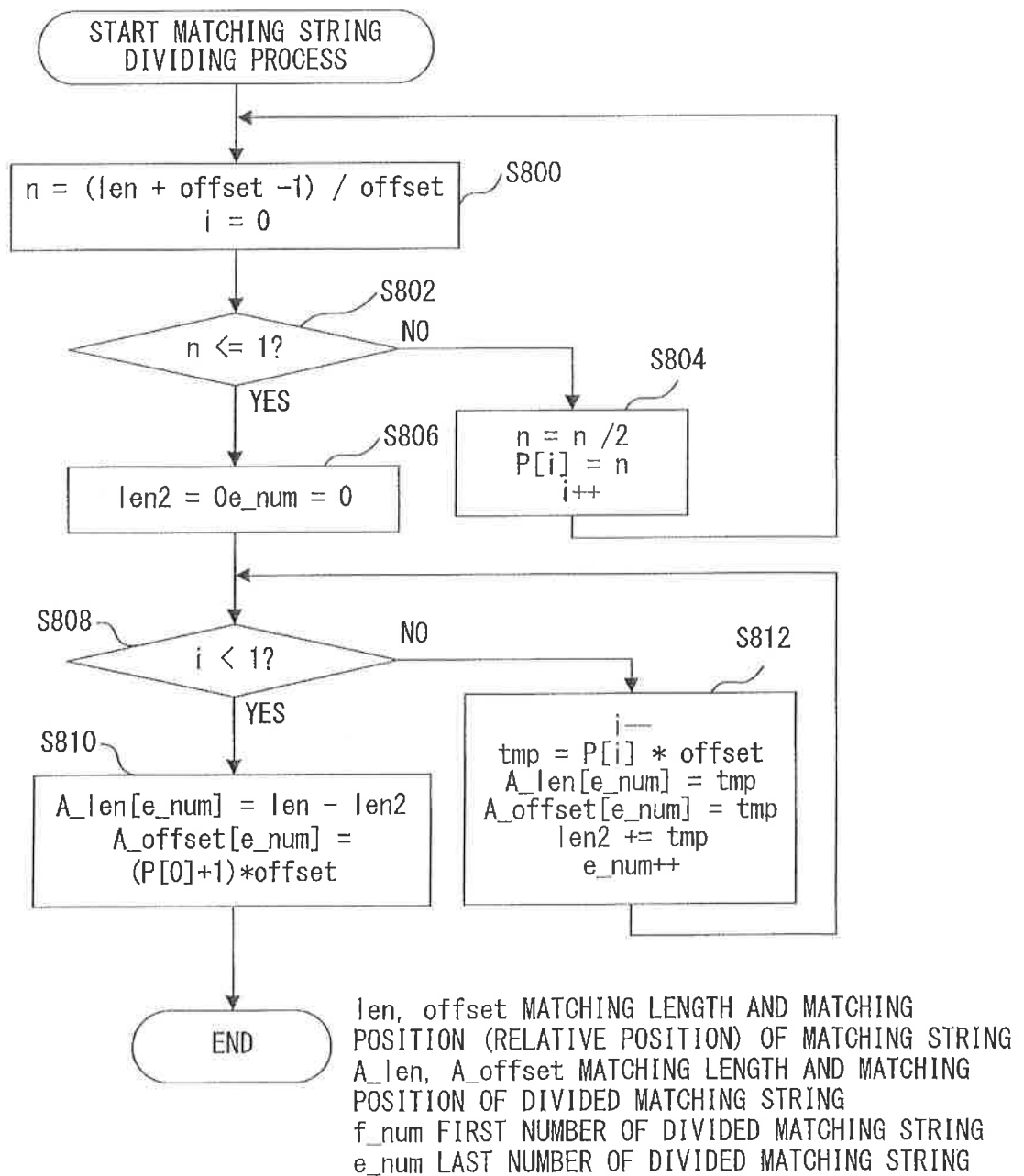


FIG. 12B

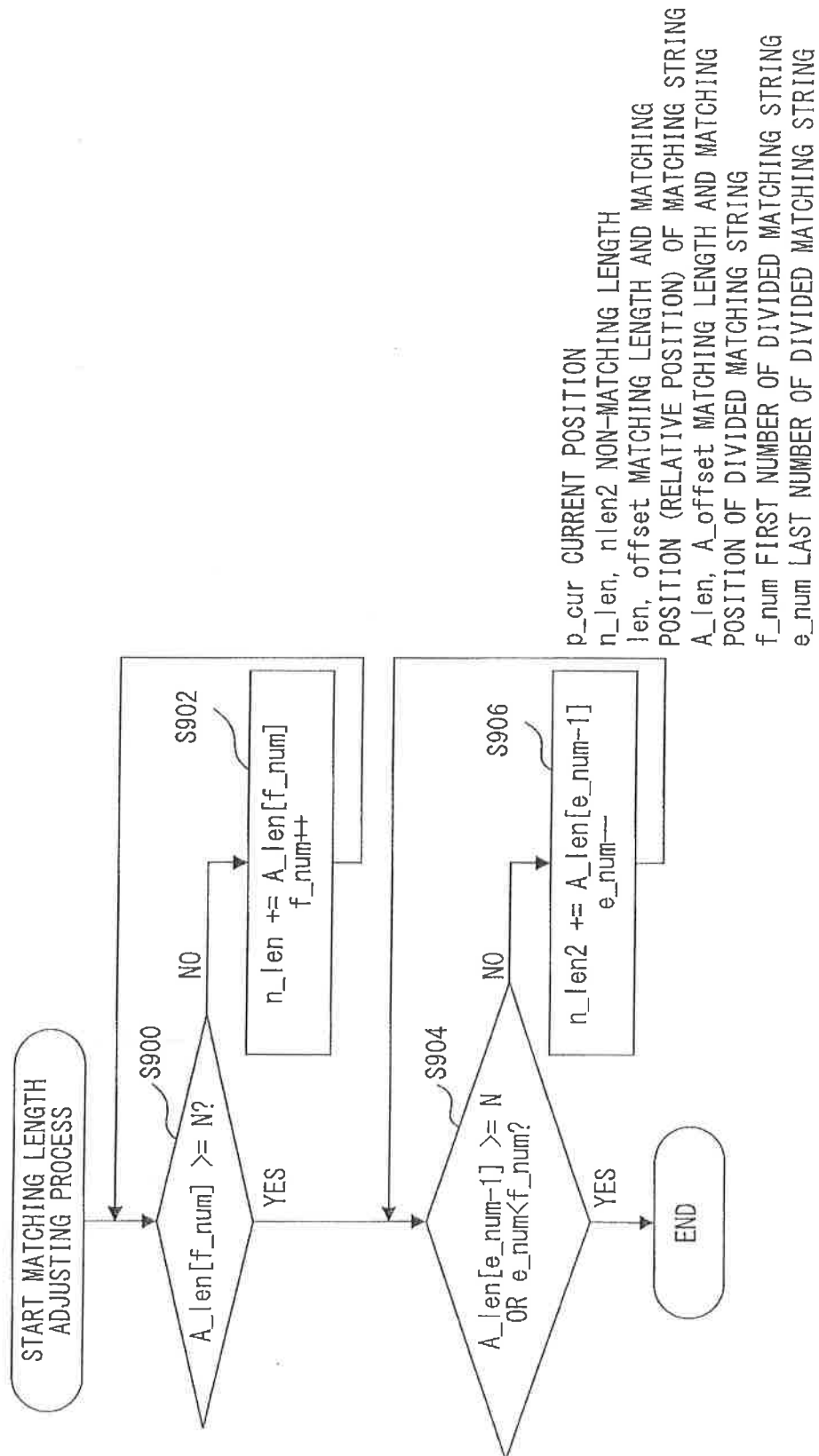


FIG. 13

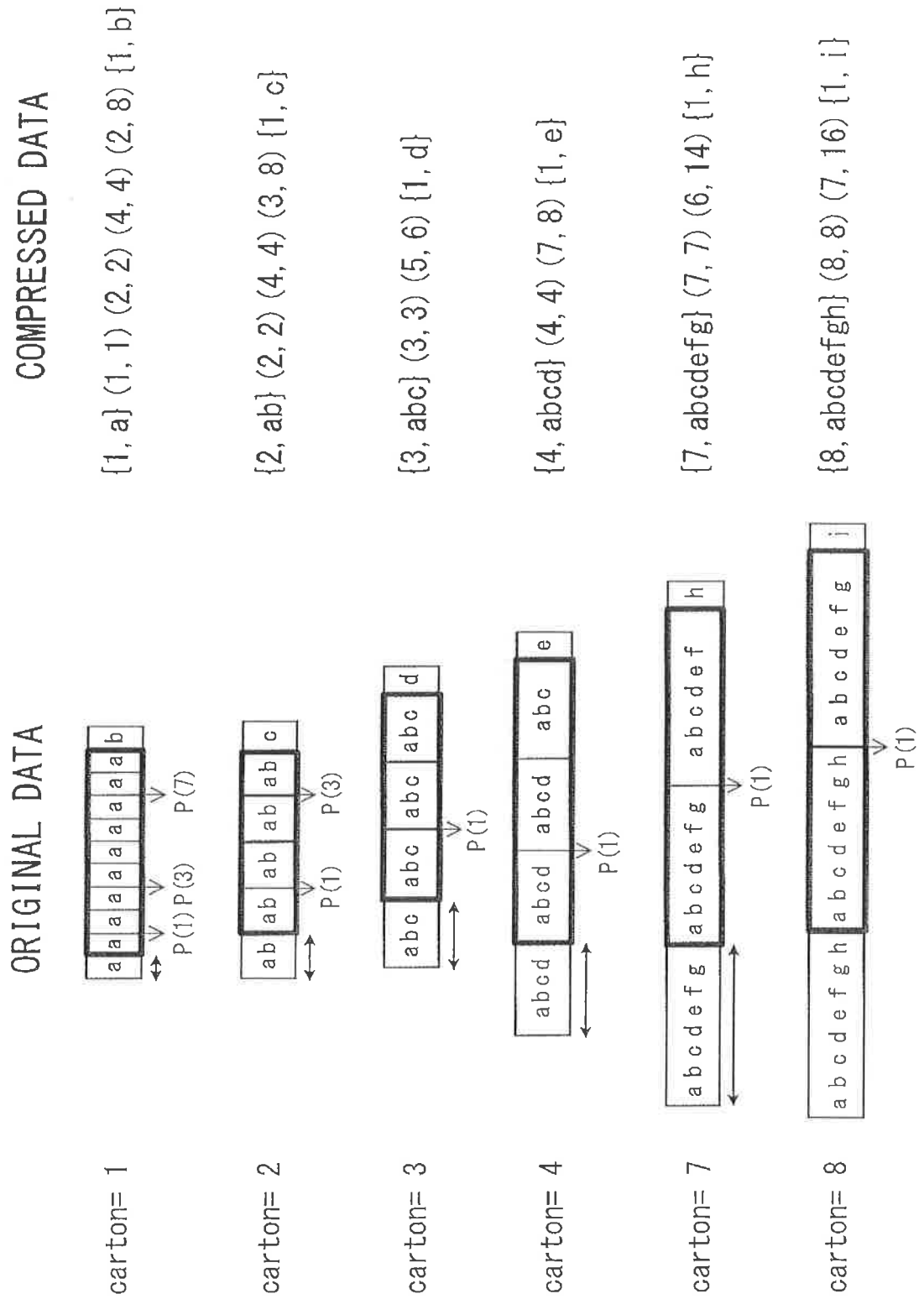


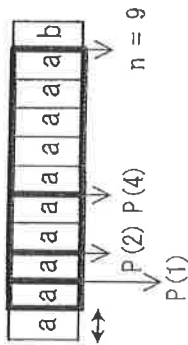
FIG. 14

COMPRESSED DATA OF PRESENT INVENTION

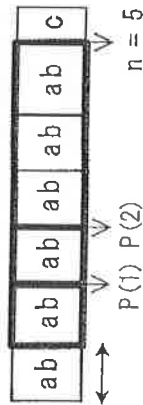
{1, a} (1, 1) (1, 2) (2, 3) (5, 5) {1, b}

ORIGINAL DATA

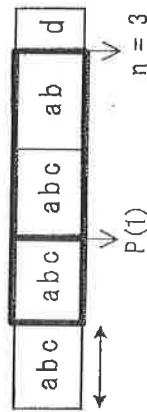
carton= 1



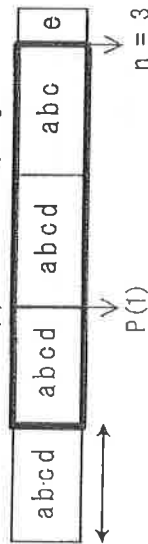
carton= 2



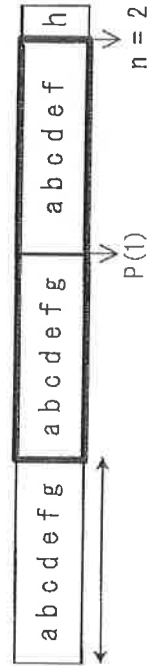
carton= 3



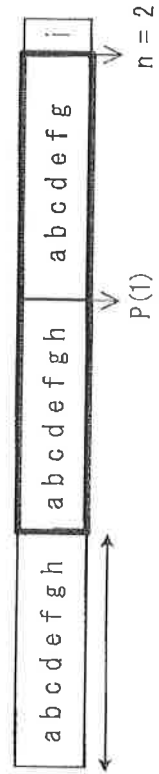
carton= 4



carton= 7



carton= 8



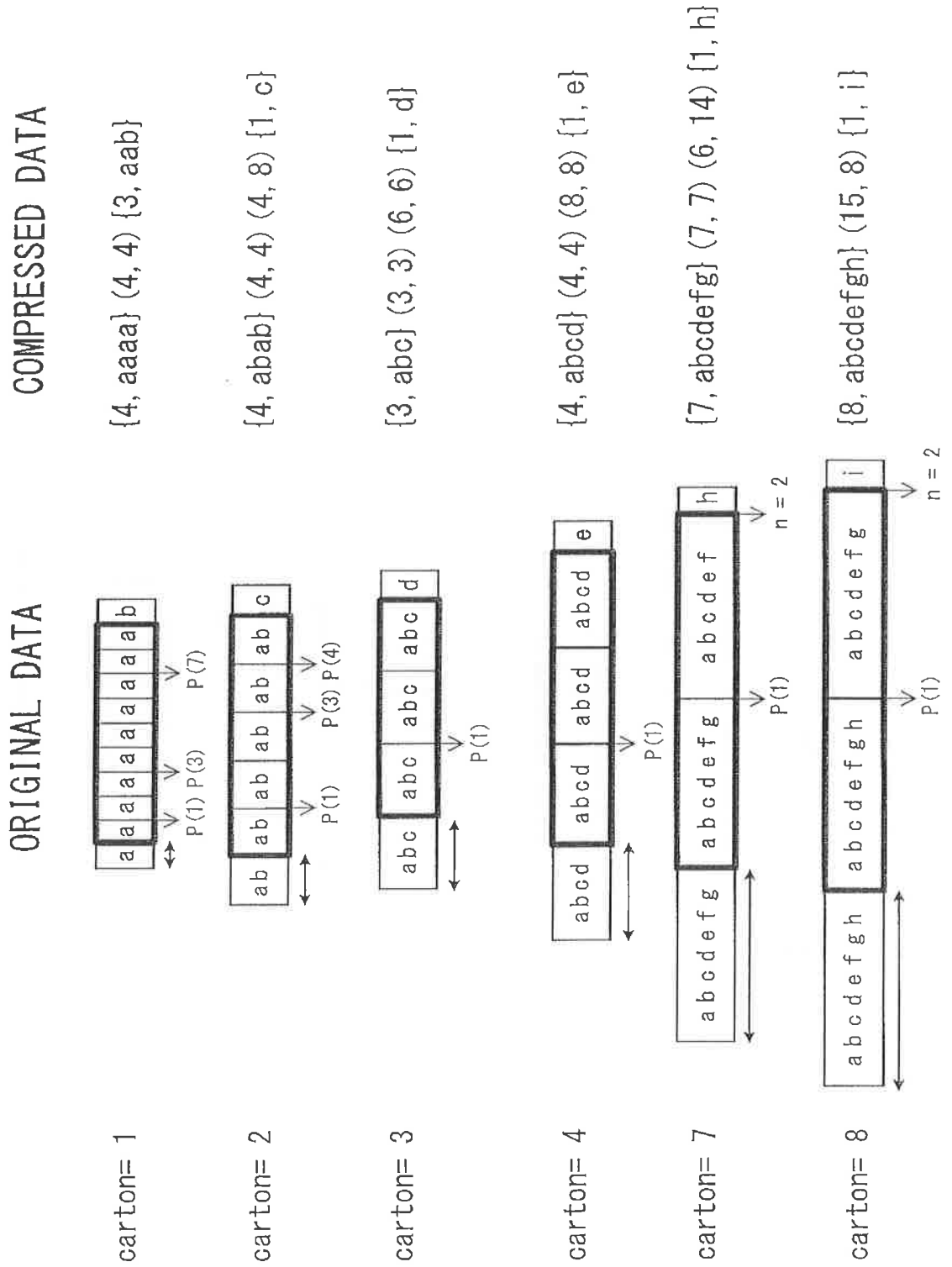
{2, ab} (2, 2) (2, 4) (5, 4) {1, c}

{3, abc} (3, 3) (5, 6) {1, d}

{4, abcd} (4, 4) (7, 8) {1, e}

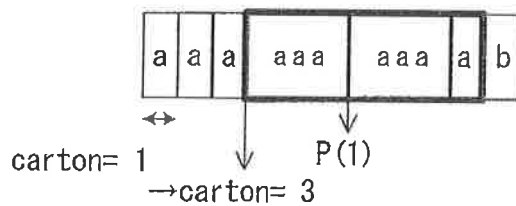
{7, abcdefg} (7, 7) (6, 14) {1, h}

{8, abcdefgh} (8, 8) (7, 16) {1, i}

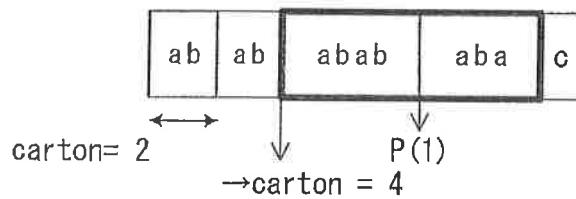


F I G. 1 6

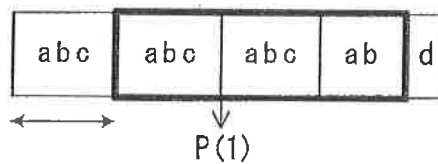
ORIGINAL DATA

COMPRESSED DATA OF
PRESENT INVENTION

{3, aaa} (3, 3) (4, 6) {1, b}



{4, abab} (4, 4) (3, 8) {1, c}



{3, abc} (3, 3) (5, 6) {1, d}

NO ADJUSTMENT BECAUSE carton = 3 > N

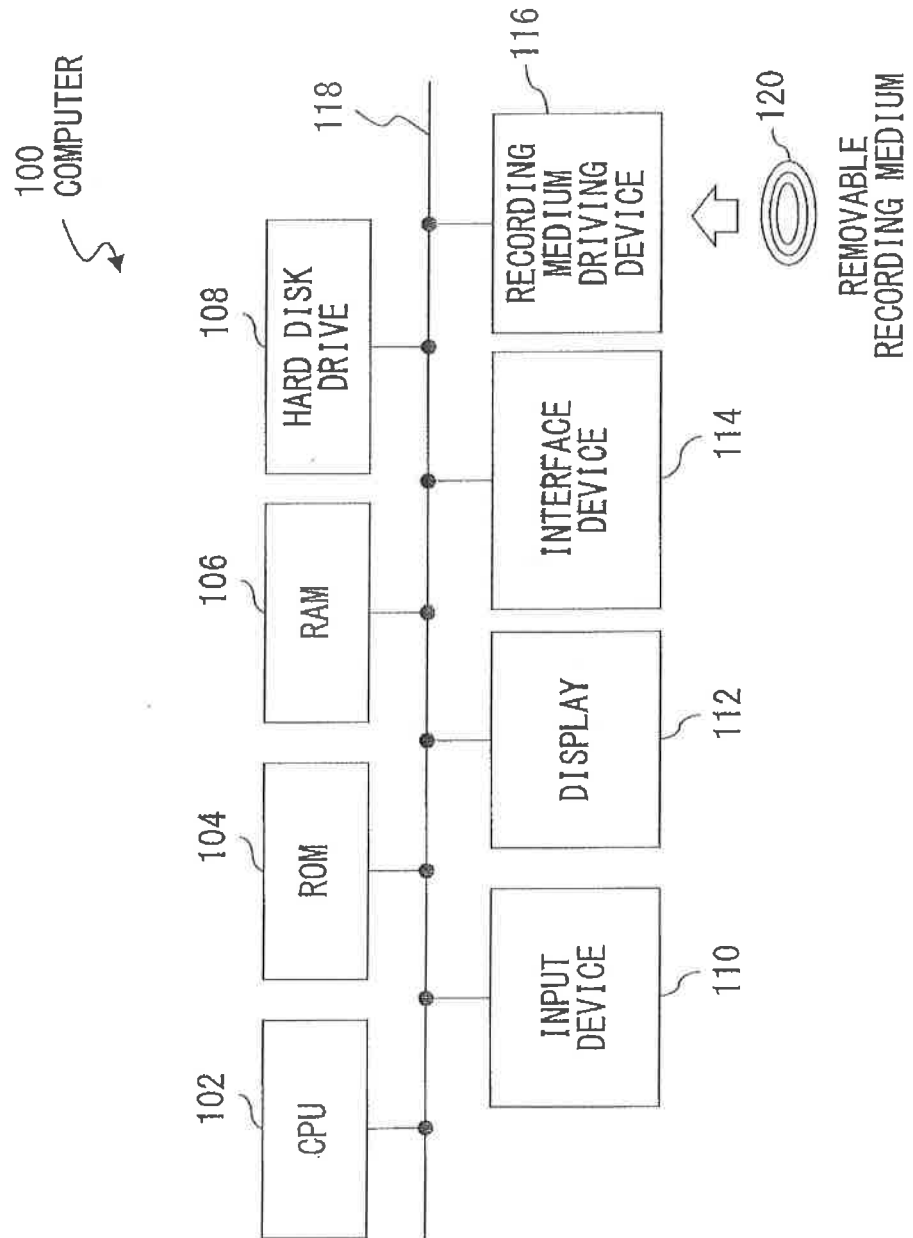


FIG. 18