

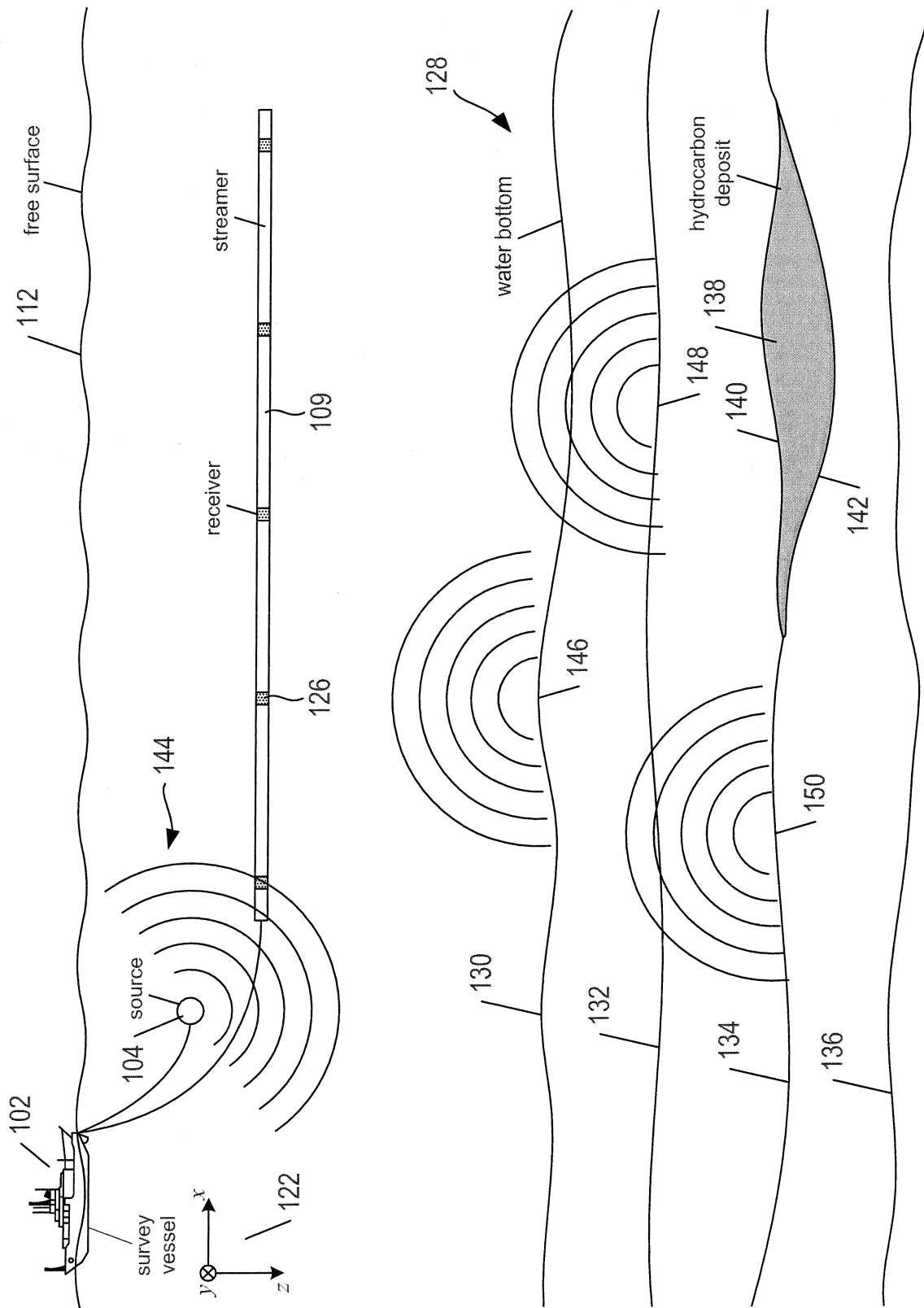


FIG. 1A

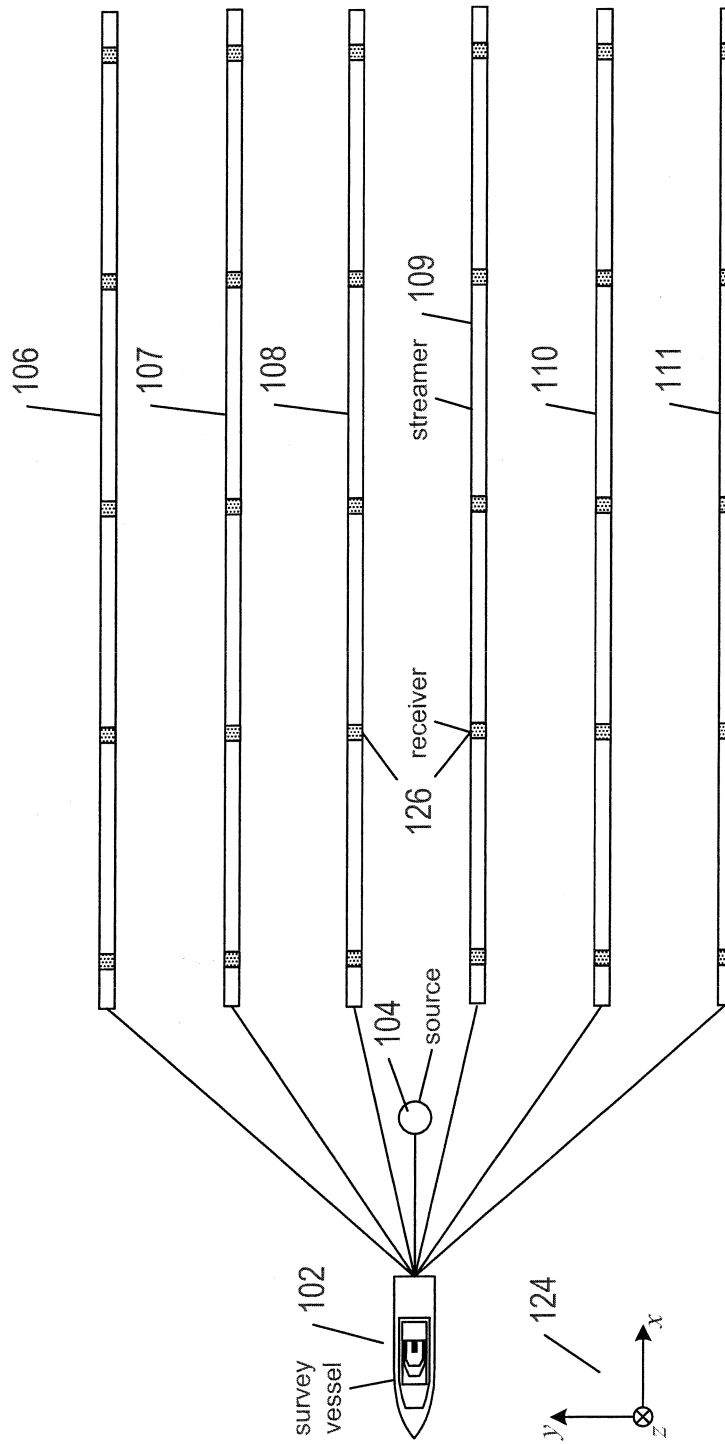


FIG. 1B

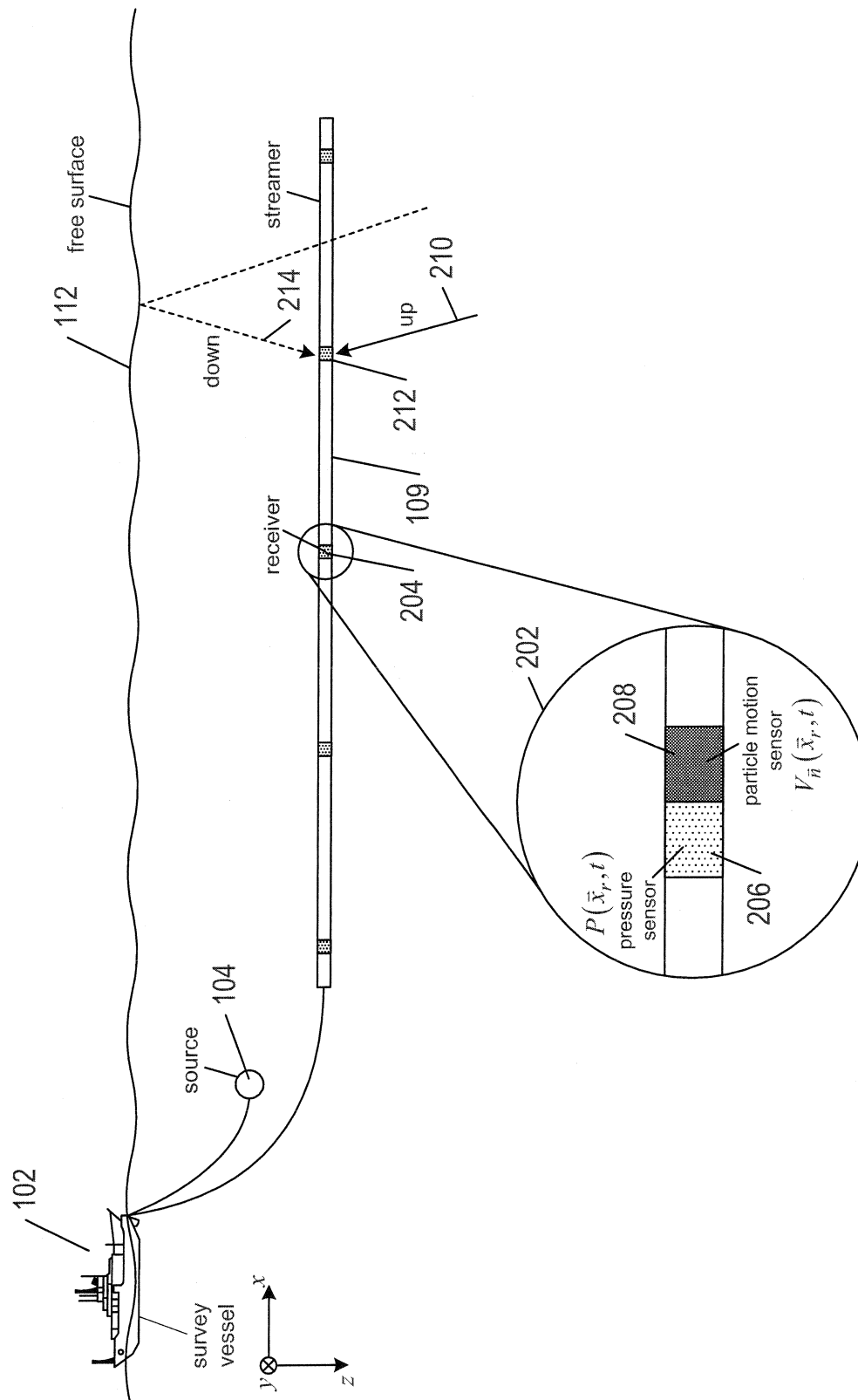


FIG. 2

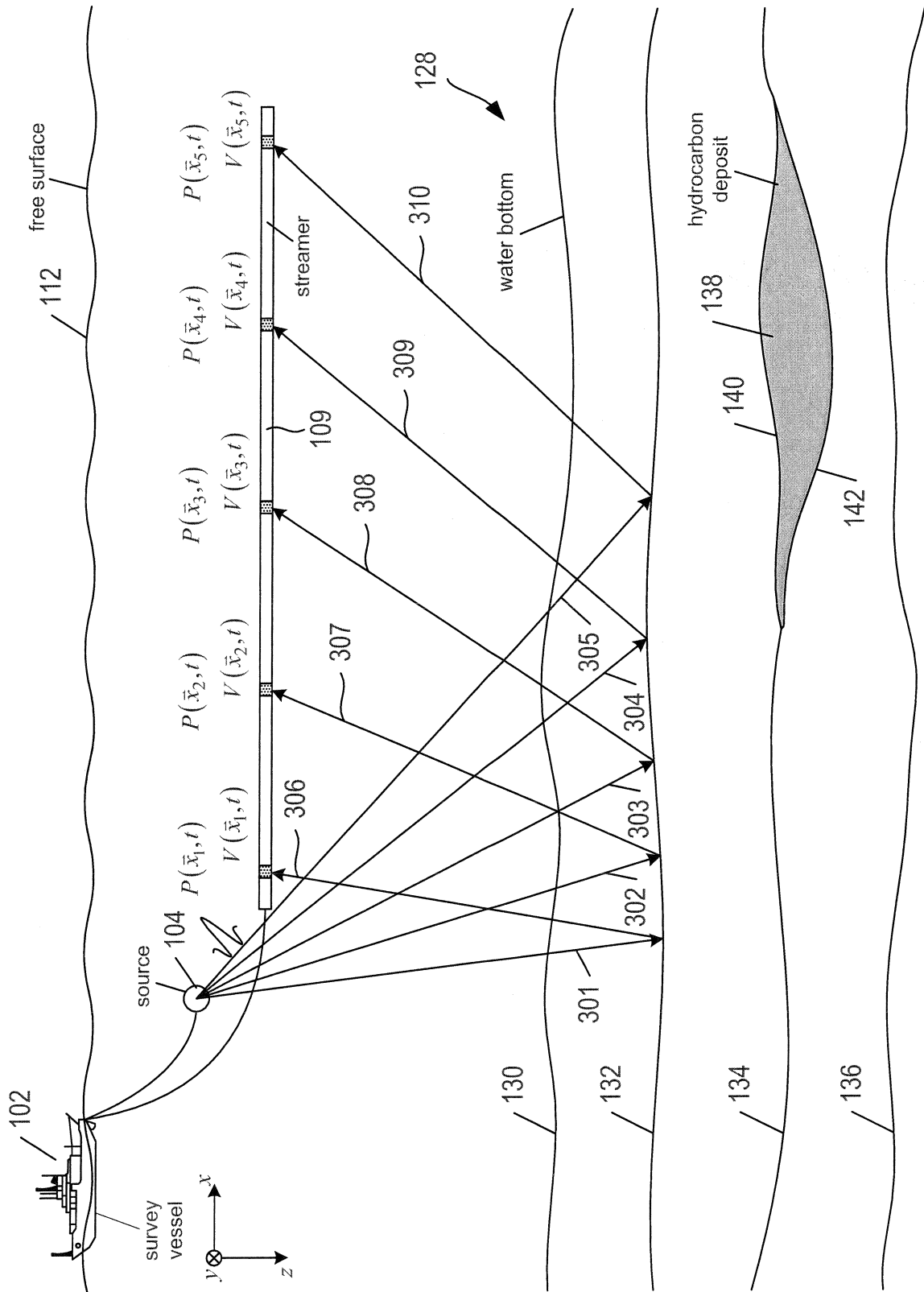
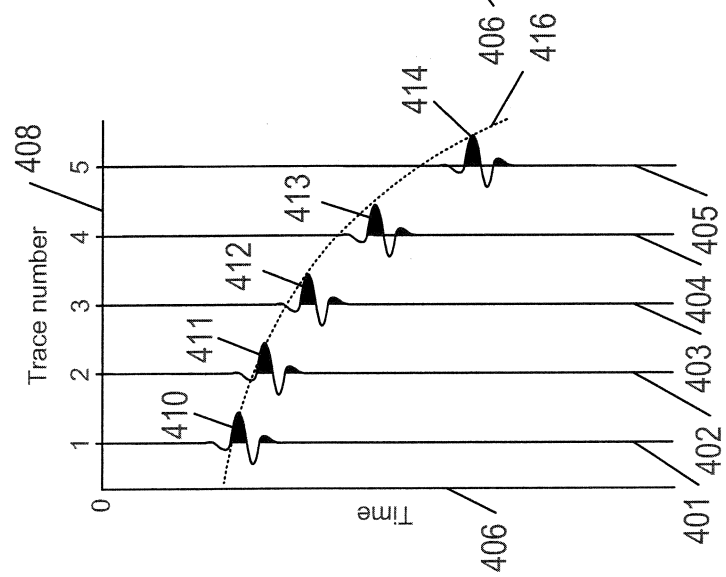
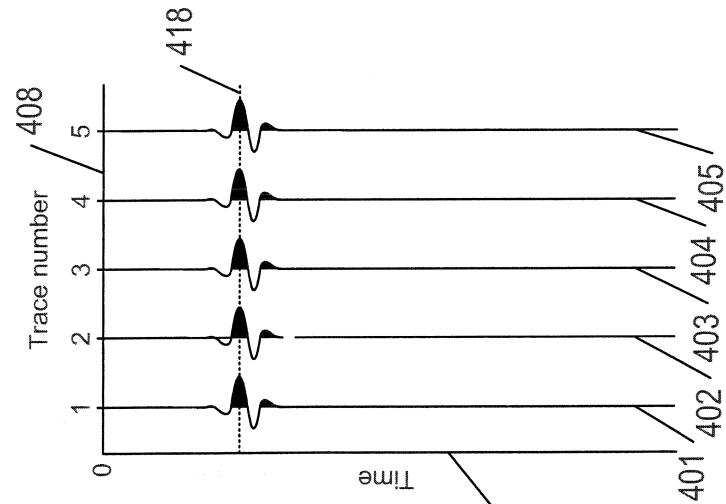
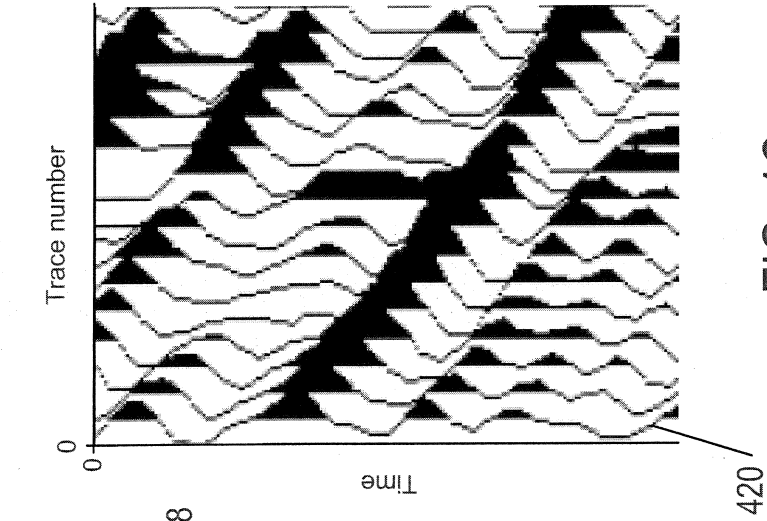


FIG. 3



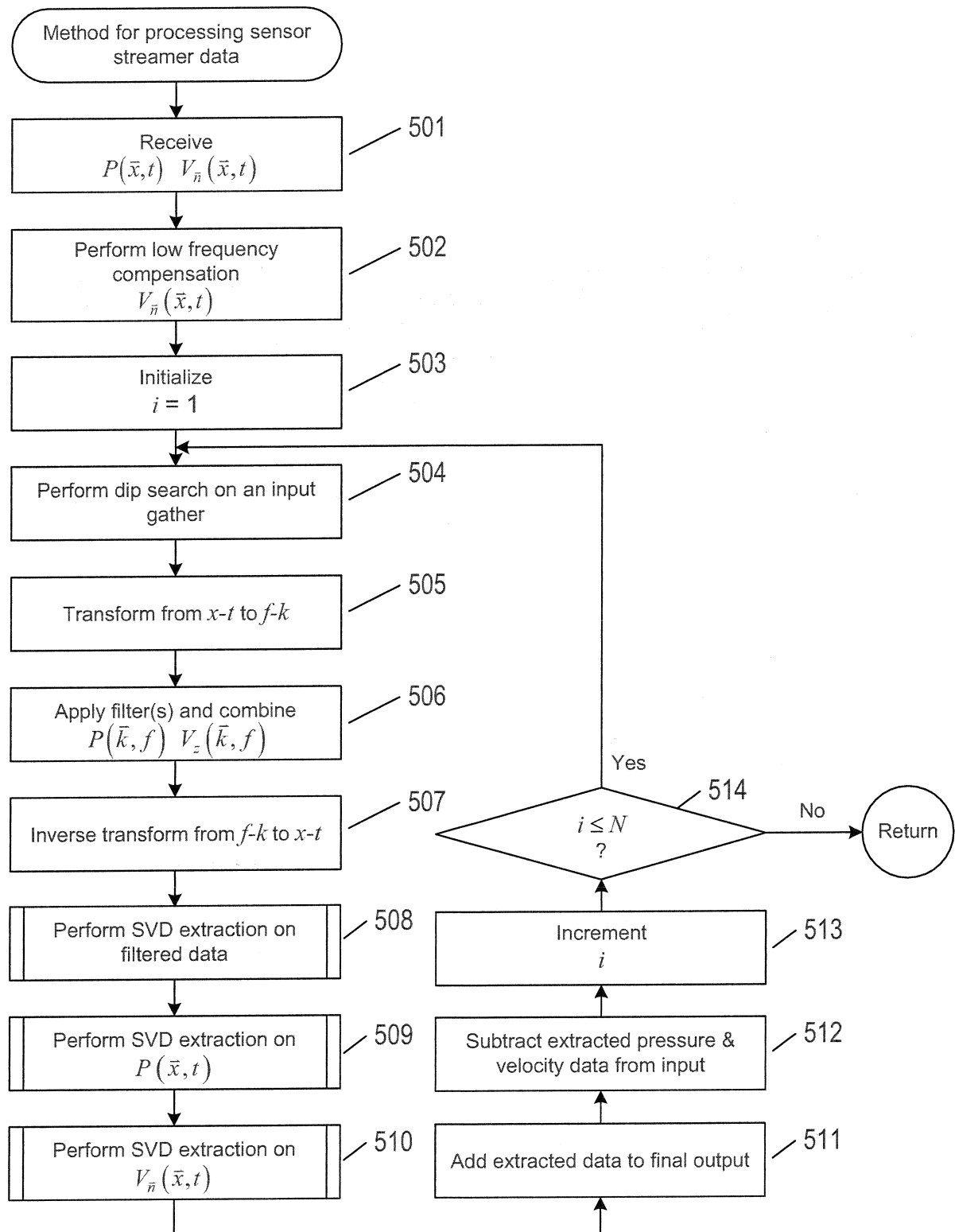


FIG. 5

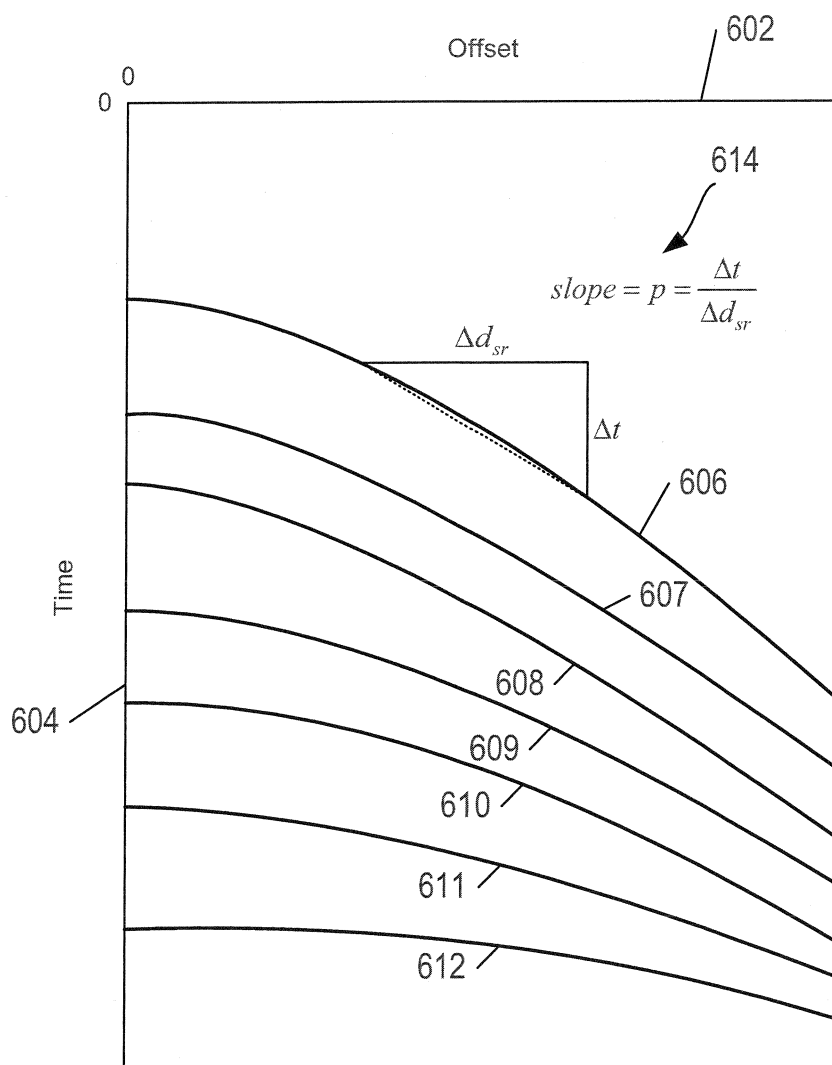


FIG. 6

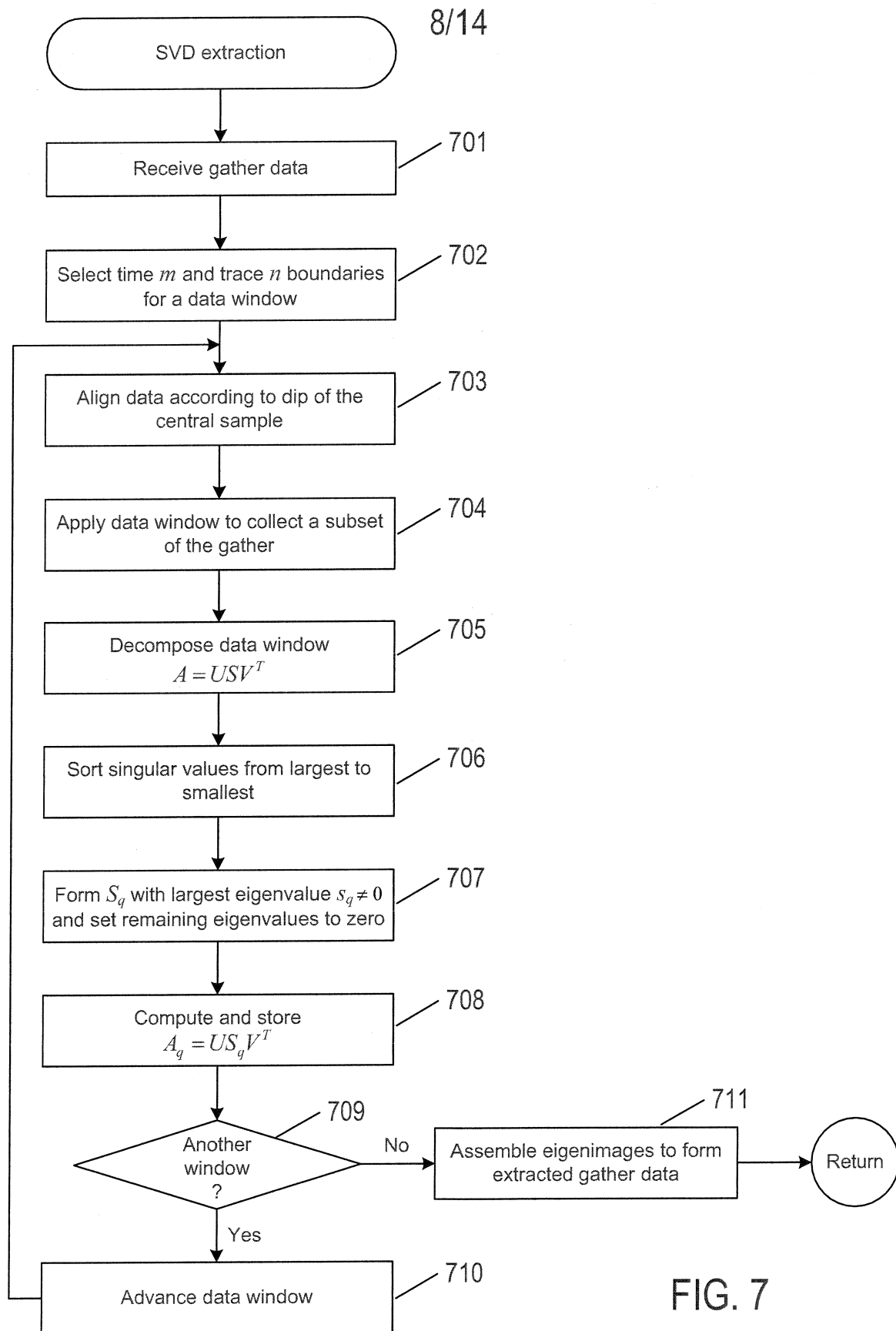


FIG. 7

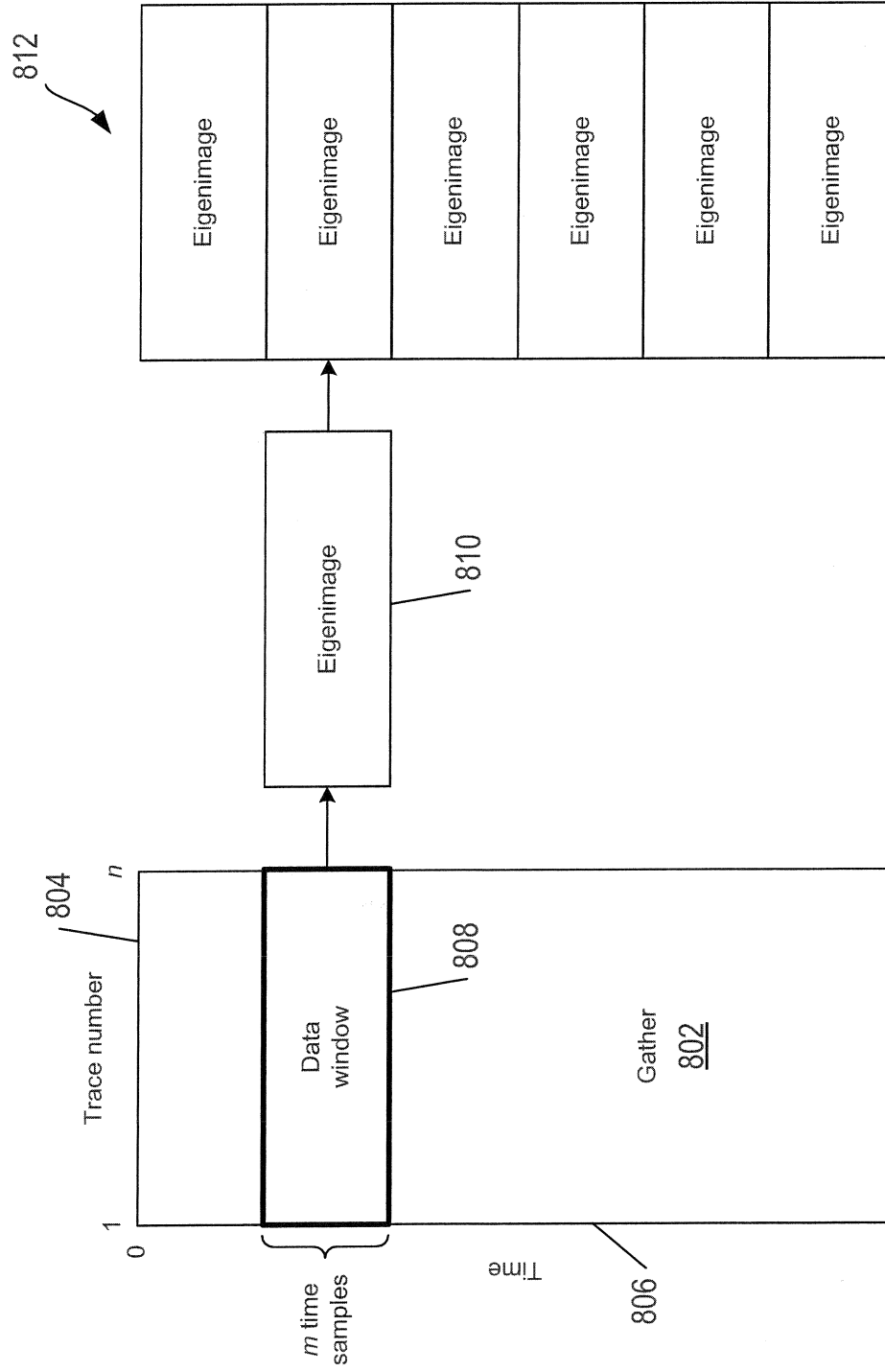


FIG. 8

$$\begin{aligned}
 A &= \begin{bmatrix} a_{11} & a_{12} & \cdots & a_{1n} \\ a_{21} & a_{22} & & \\ \vdots & & \ddots & \\ a_{m1} & & & a_{mn} \end{bmatrix} \quad 902 \\
 &= USV^T \quad 904 \\
 &= \underbrace{\begin{bmatrix} \bar{u}_1 & \bar{u}_2 & \cdots & \bar{u}_n \end{bmatrix}}_{m \times n} \underbrace{\begin{bmatrix} s_1 & 0 & \cdots & 0 \\ 0 & s_2 & & \\ \vdots & & \ddots & \\ 0 & & & s_n \end{bmatrix}}_{n \times n} \underbrace{\begin{bmatrix} \bar{v}_1 & \bar{v}_2 & \cdots & \bar{v}_n \end{bmatrix}^T}_{n \times n} \quad 910
 \end{aligned}$$

$\bar{u}_2$  is labeled 906,  $s_1$  is labeled 914, and  $\bar{v}_n$  is labeled 910.

where

$$\begin{aligned}
 \bar{u}_\beta &= \begin{bmatrix} u_{1\beta} \\ u_{2\beta} \\ \vdots \\ u_{m\beta} \end{bmatrix} \quad 908 \\
 \bar{v}_\beta &= \begin{bmatrix} v_{1\beta} \\ v_{2\beta} \\ \vdots \\ v_{n\beta} \end{bmatrix} \quad 912 \\
 s_\beta &= \sqrt{\varepsilon_\beta} \quad 916
 \end{aligned}$$

FIG. 9

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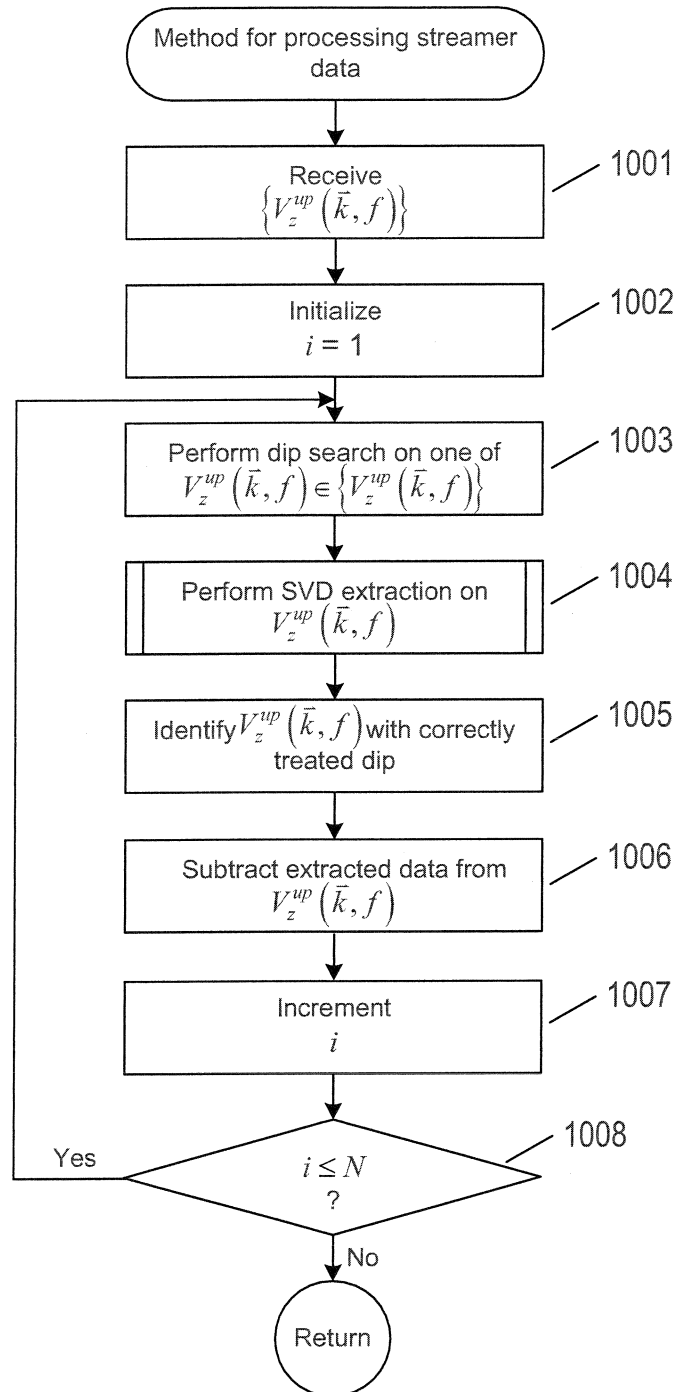


FIG. 10

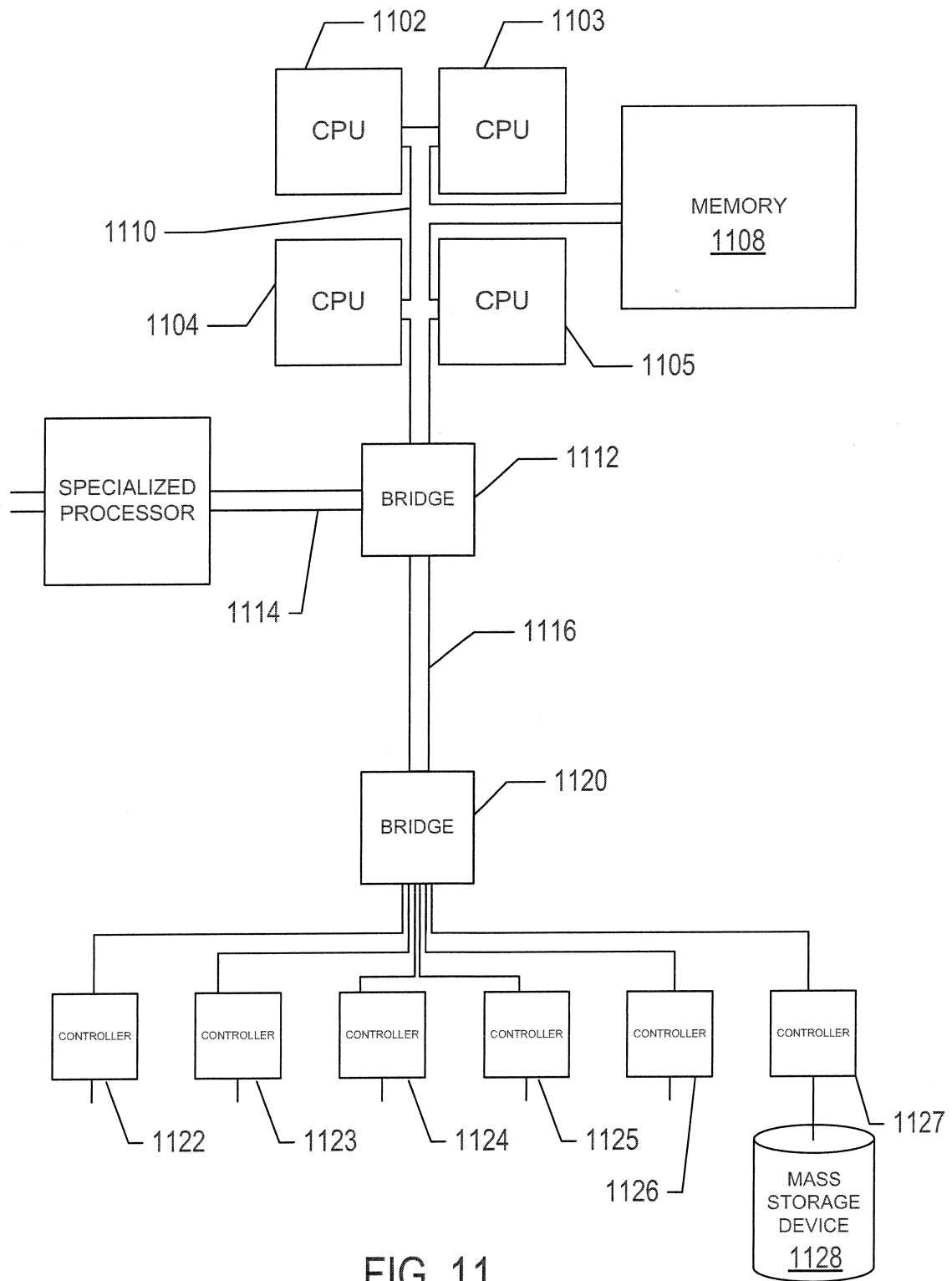


FIG. 11

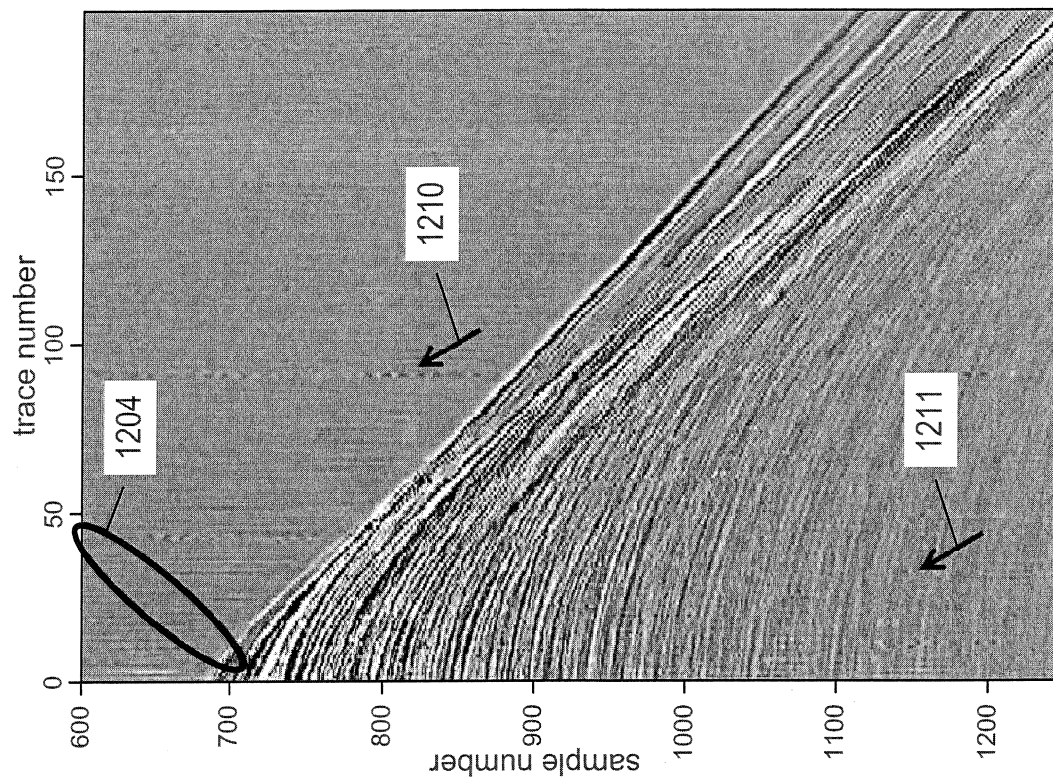


FIG. 12A

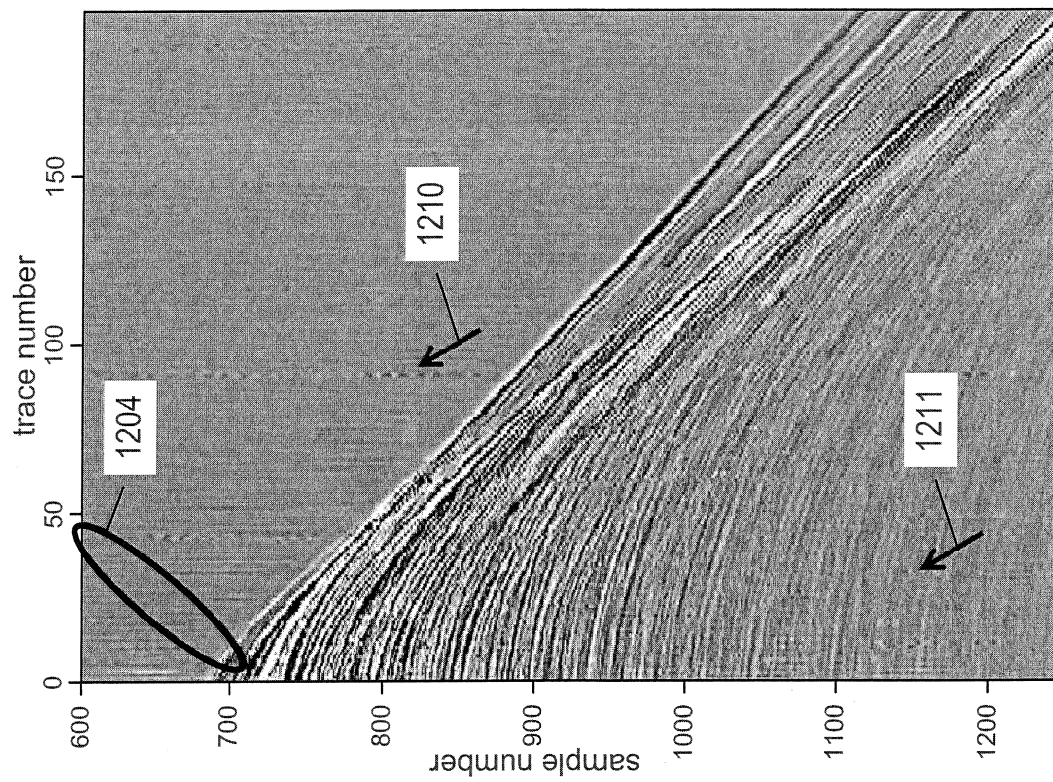


FIG. 12B

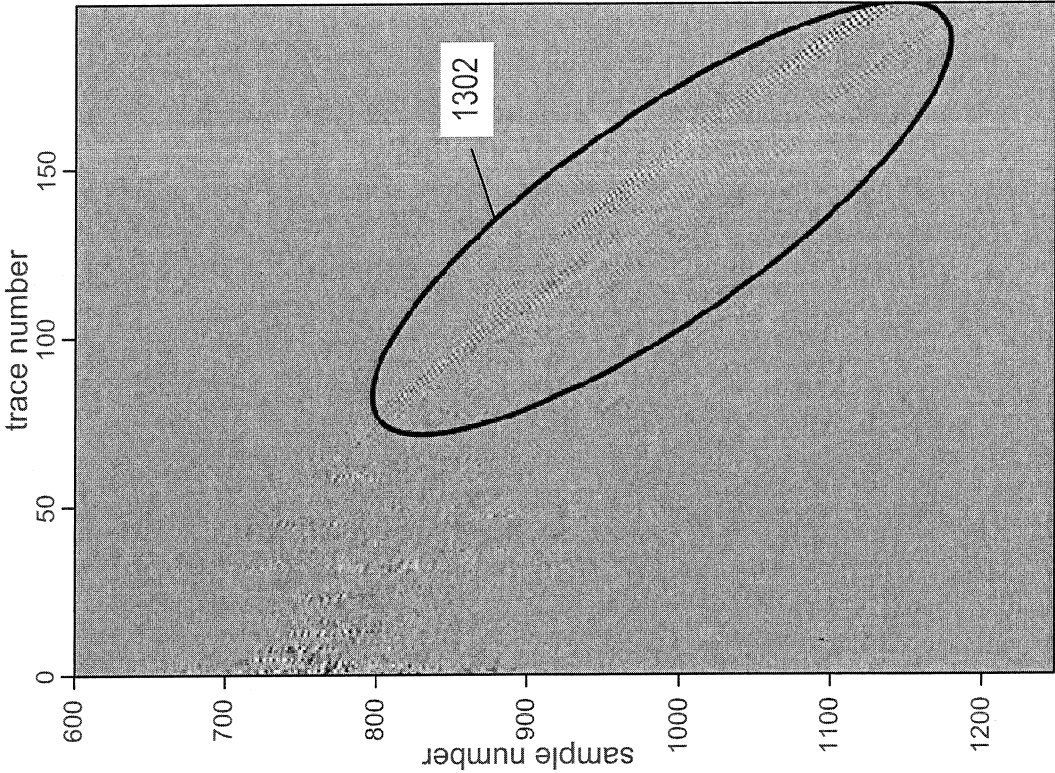


FIG. 13A

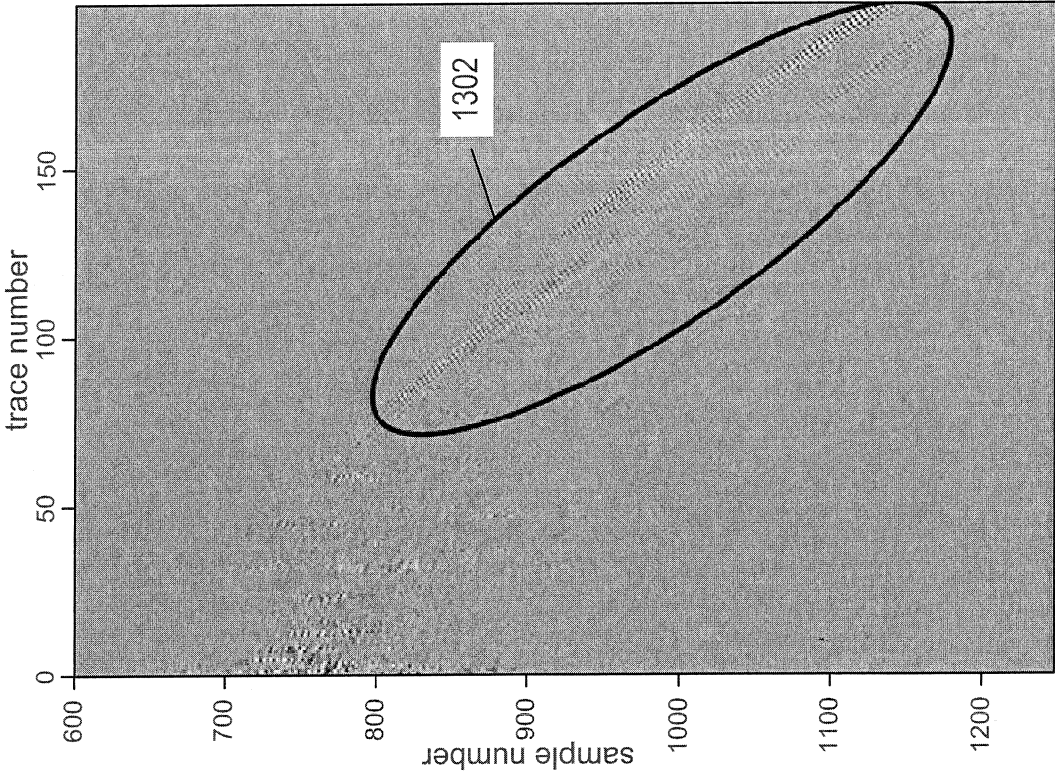


FIG. 13B