

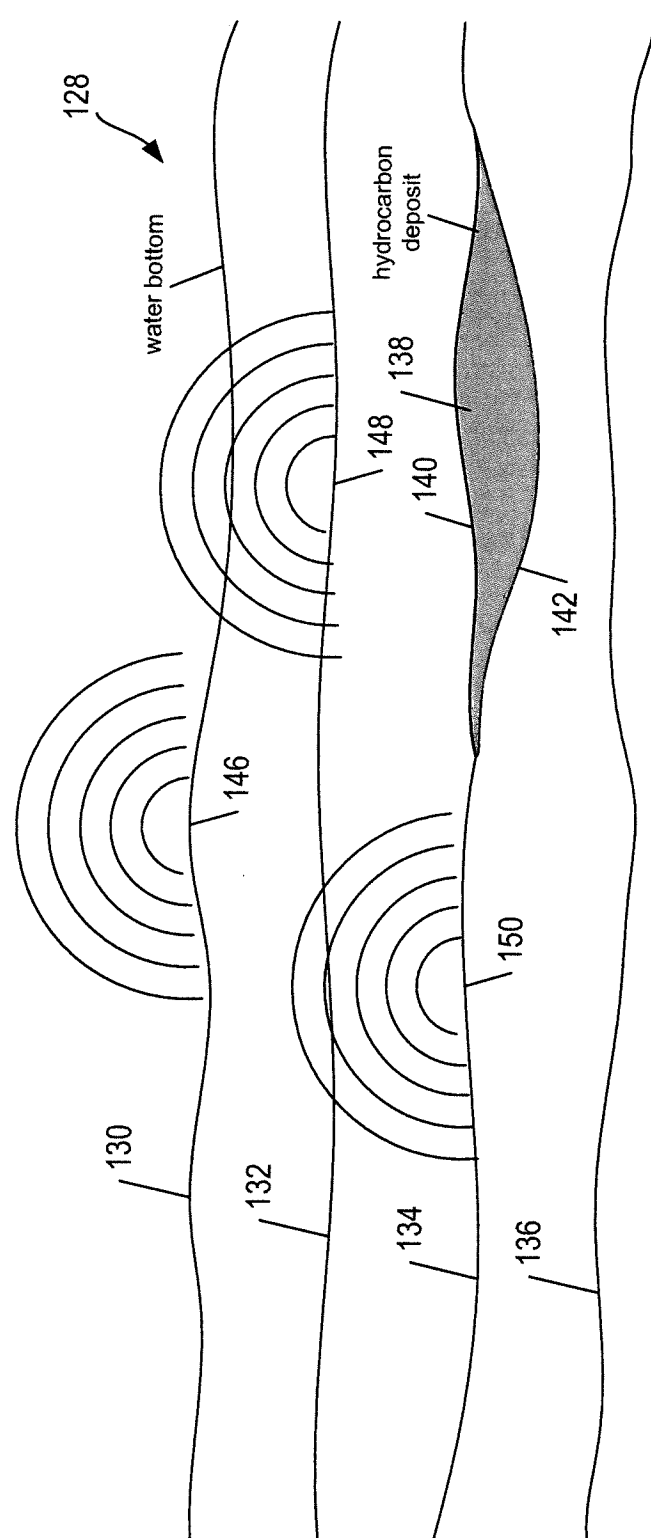
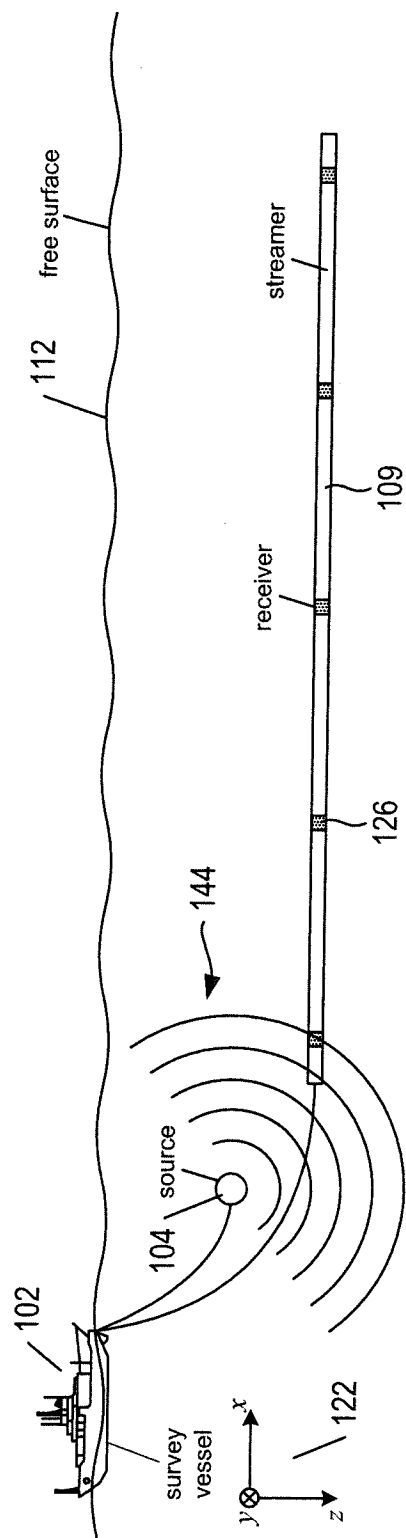


FIG. 1A

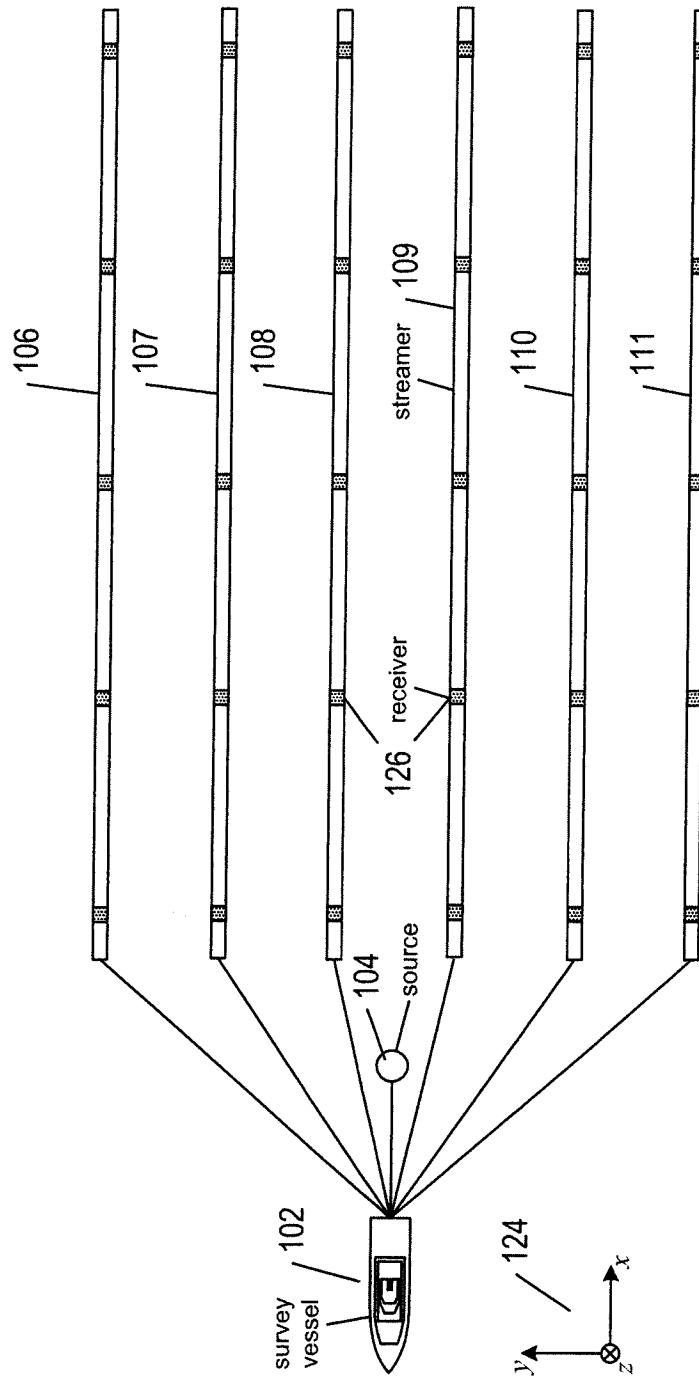


FIG. 1B

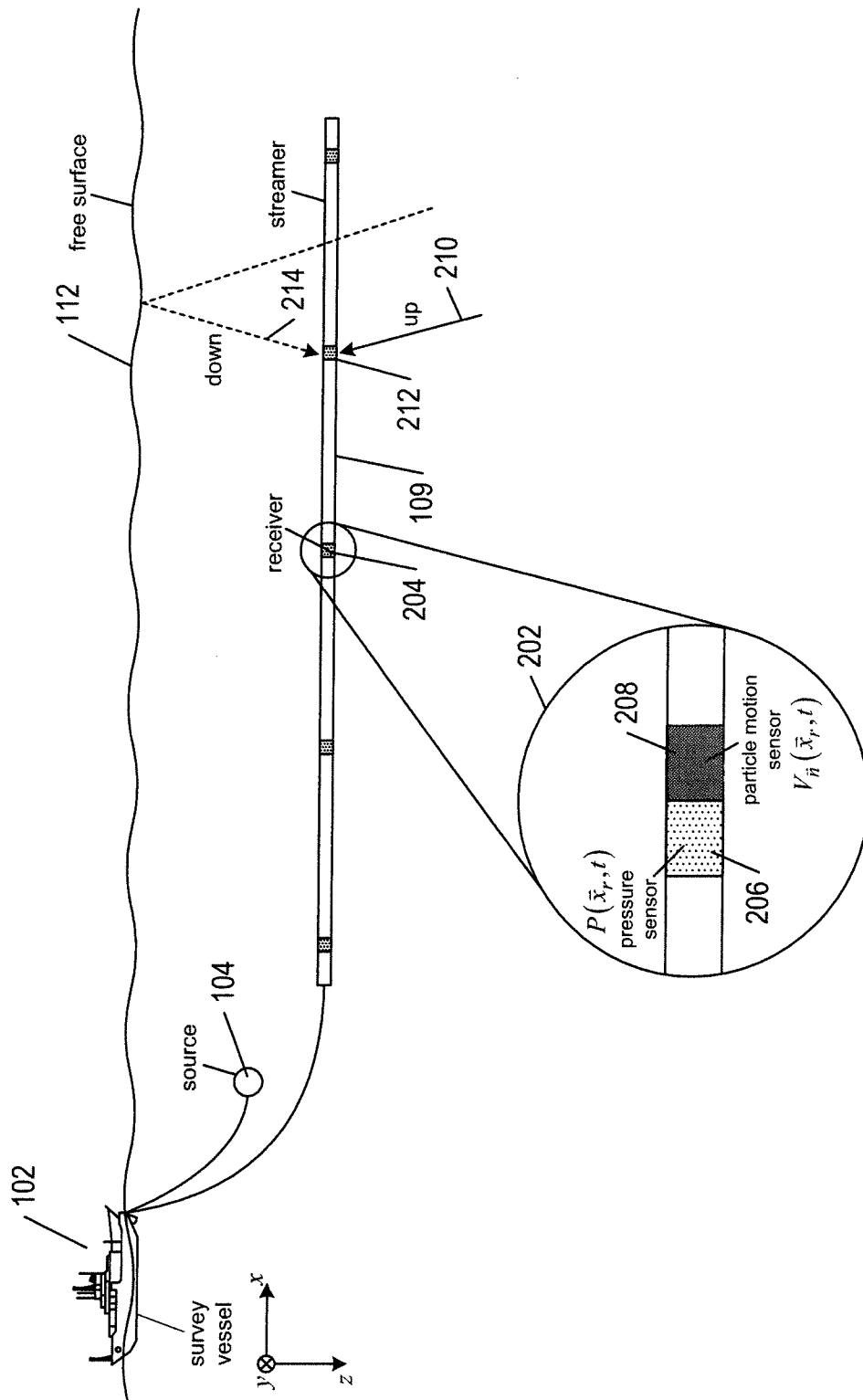


FIG. 2

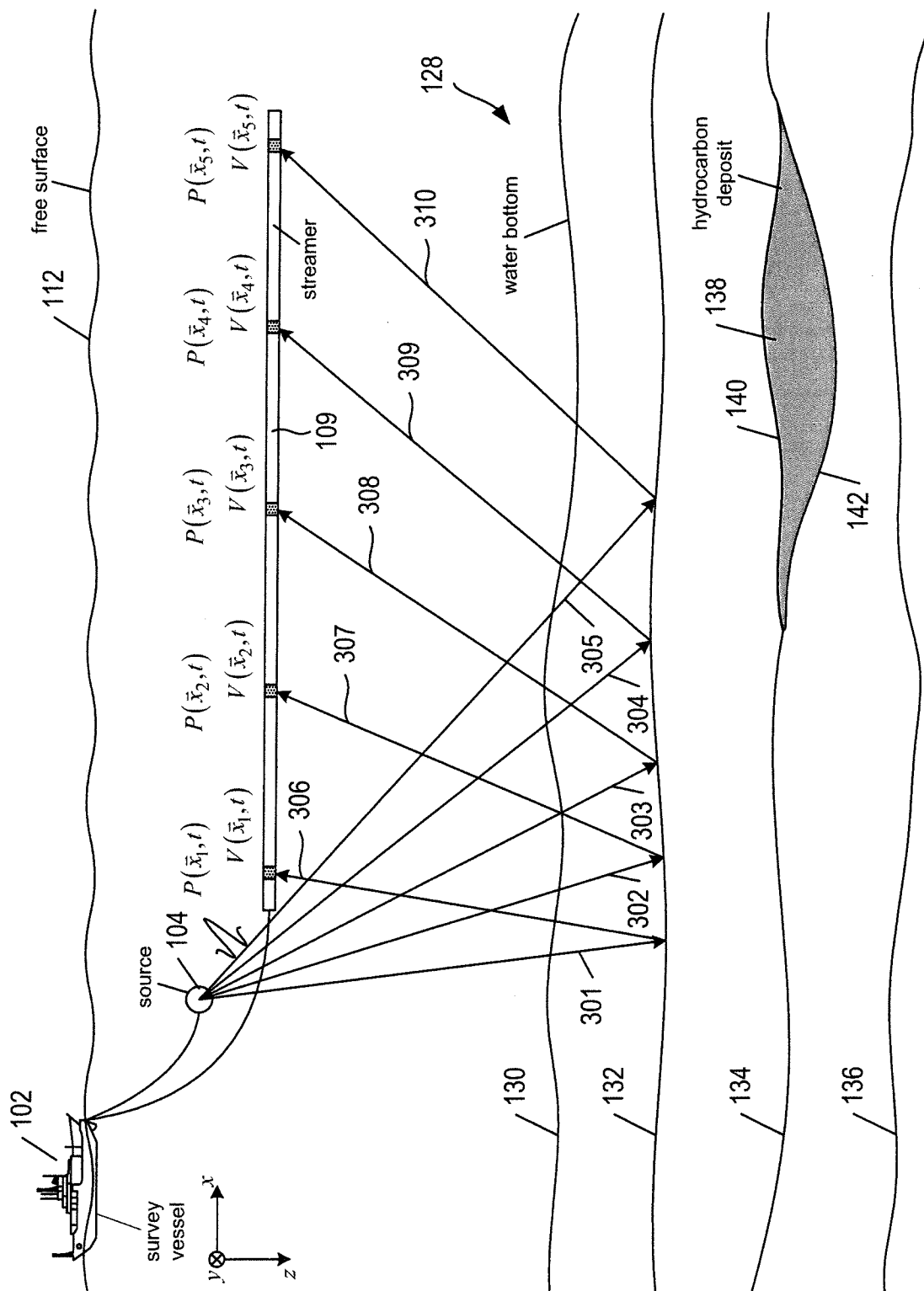


FIG. 3

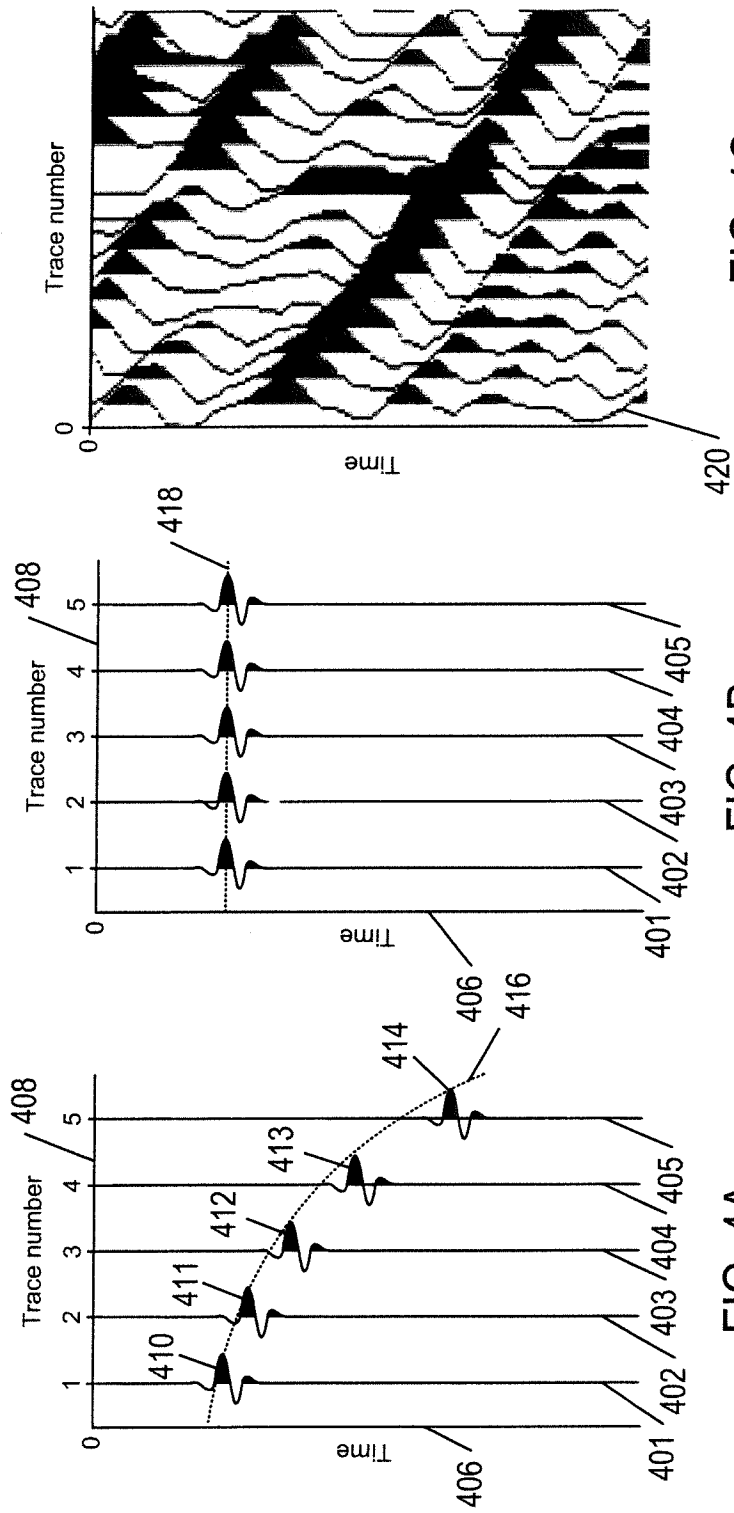


FIG. 4C

FIG. 4B

FIG. 4A

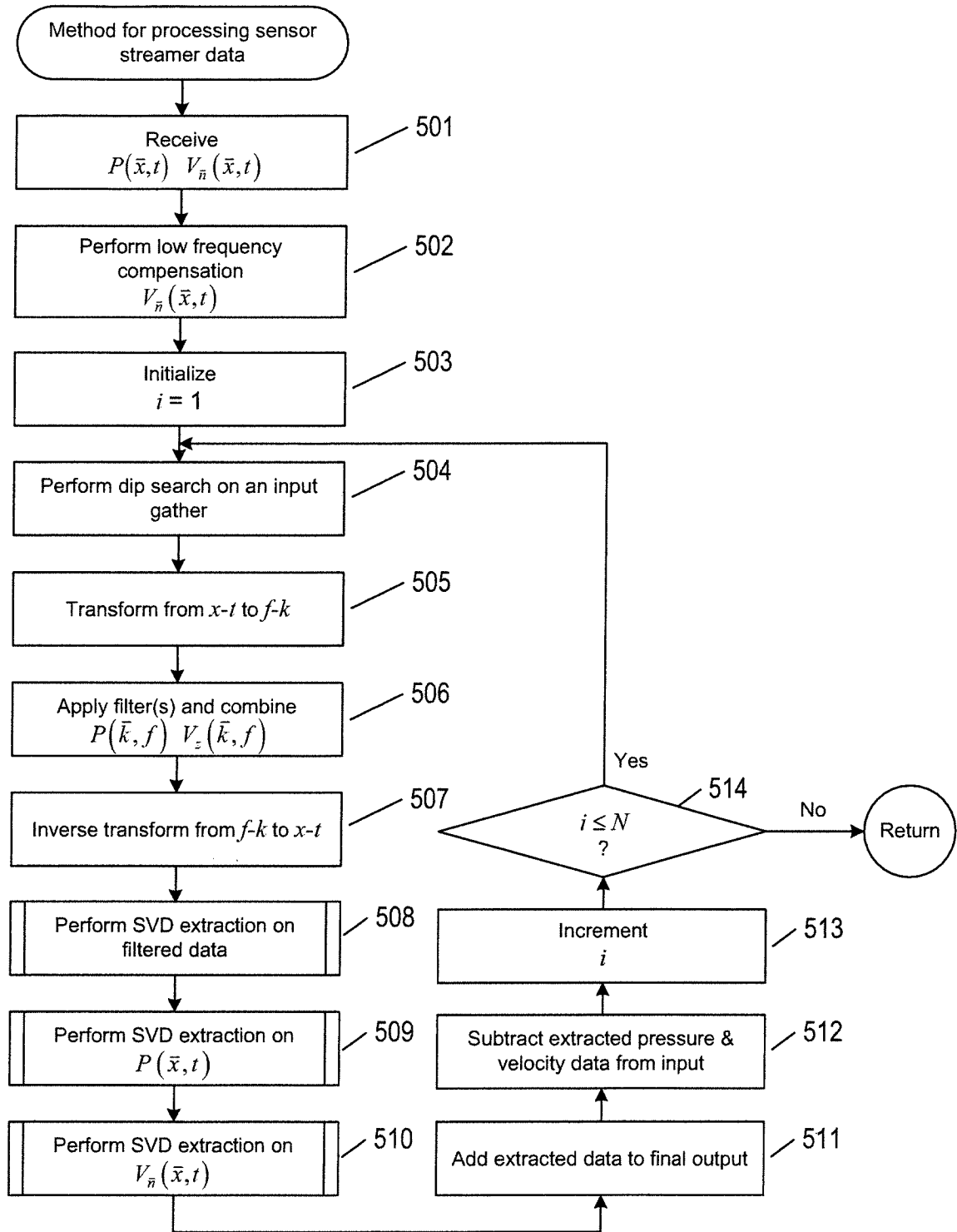


FIG. 5

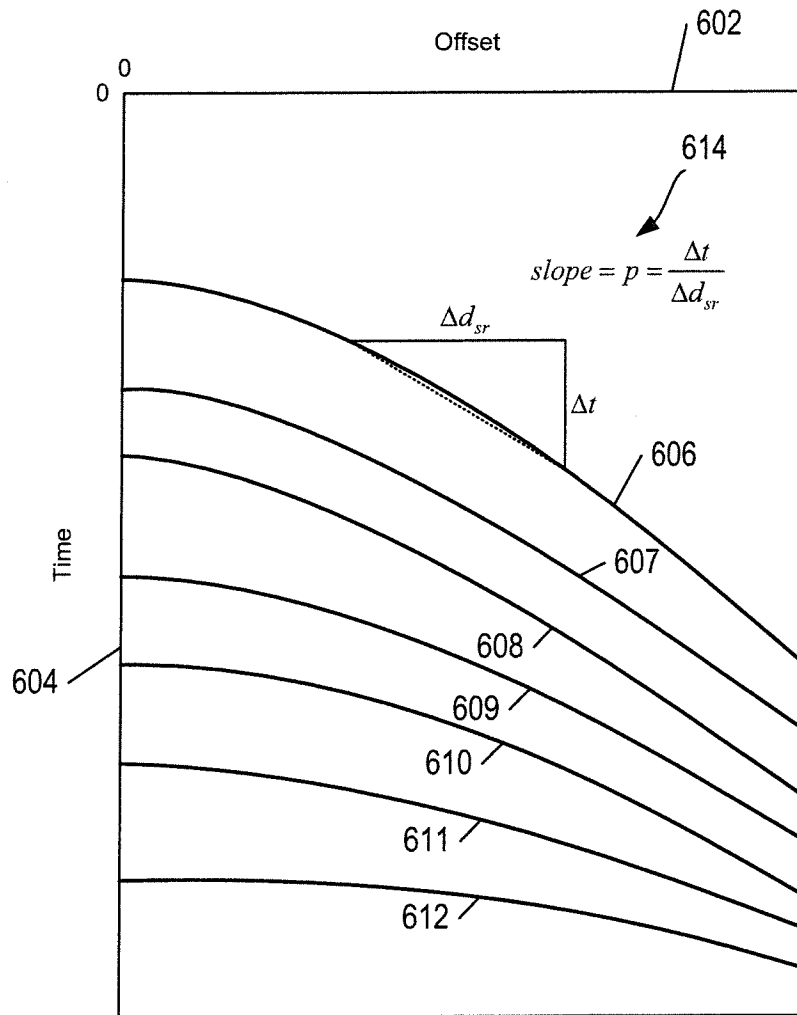


FIG. 6

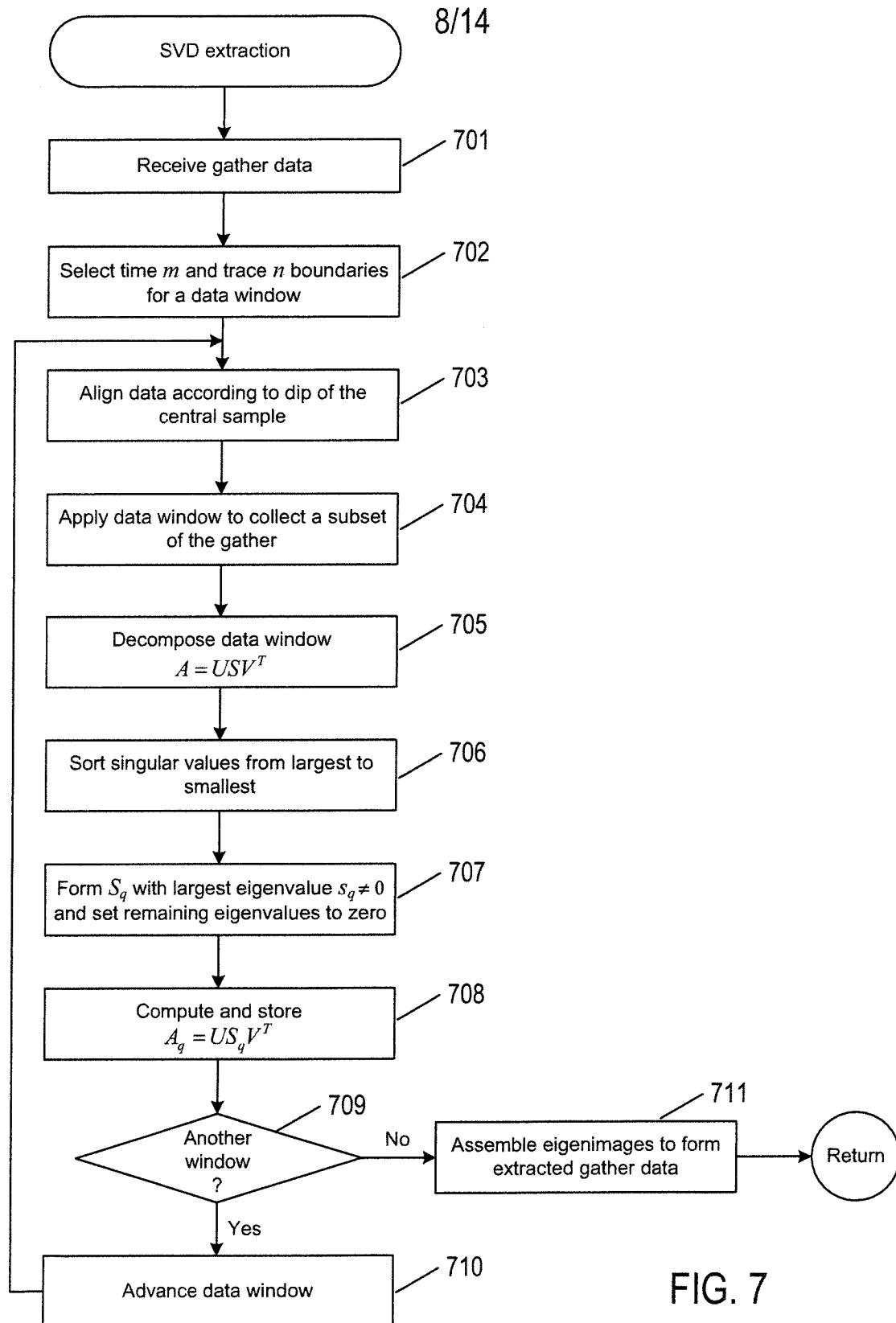


FIG. 7

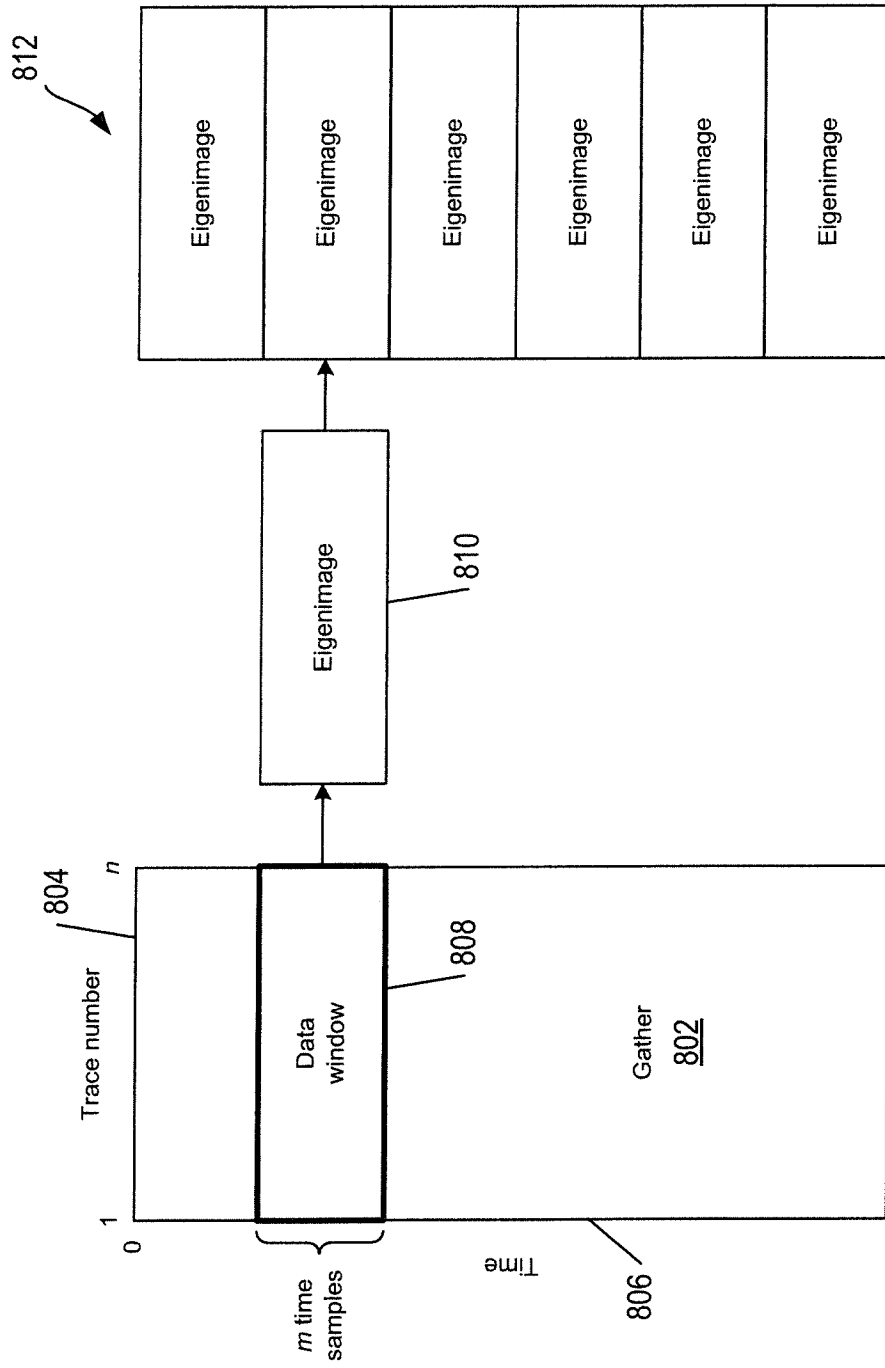


FIG. 8

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

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

where

$$\bar{u}_\beta = \begin{bmatrix} u_{1\beta} \\ u_{2\beta} \\ \vdots \\ u_{m\beta} \end{bmatrix} \quad 908$$

$$\bar{v}_\beta = \begin{bmatrix} v_{1\beta} \\ v_{2\beta} \\ \vdots \\ v_{n\beta} \end{bmatrix} \quad 912$$

$$s_\beta = \sqrt{\varepsilon_\beta} \quad 916$$

FIG. 9

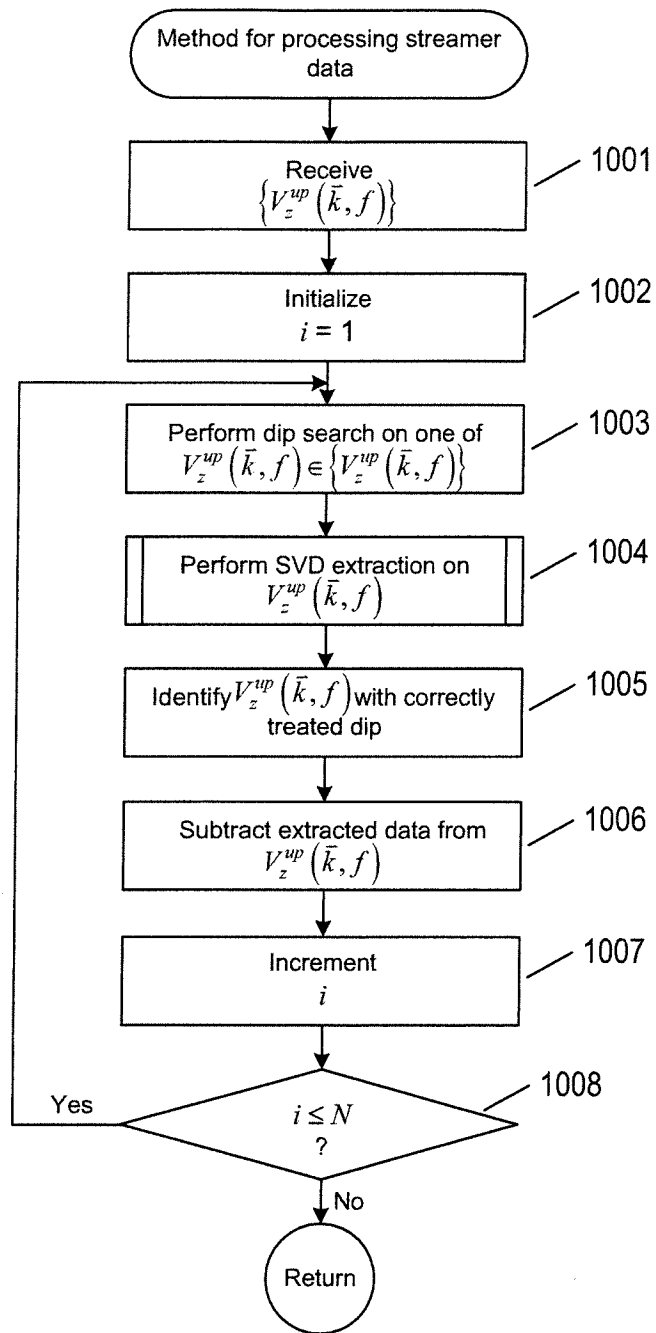


FIG. 10

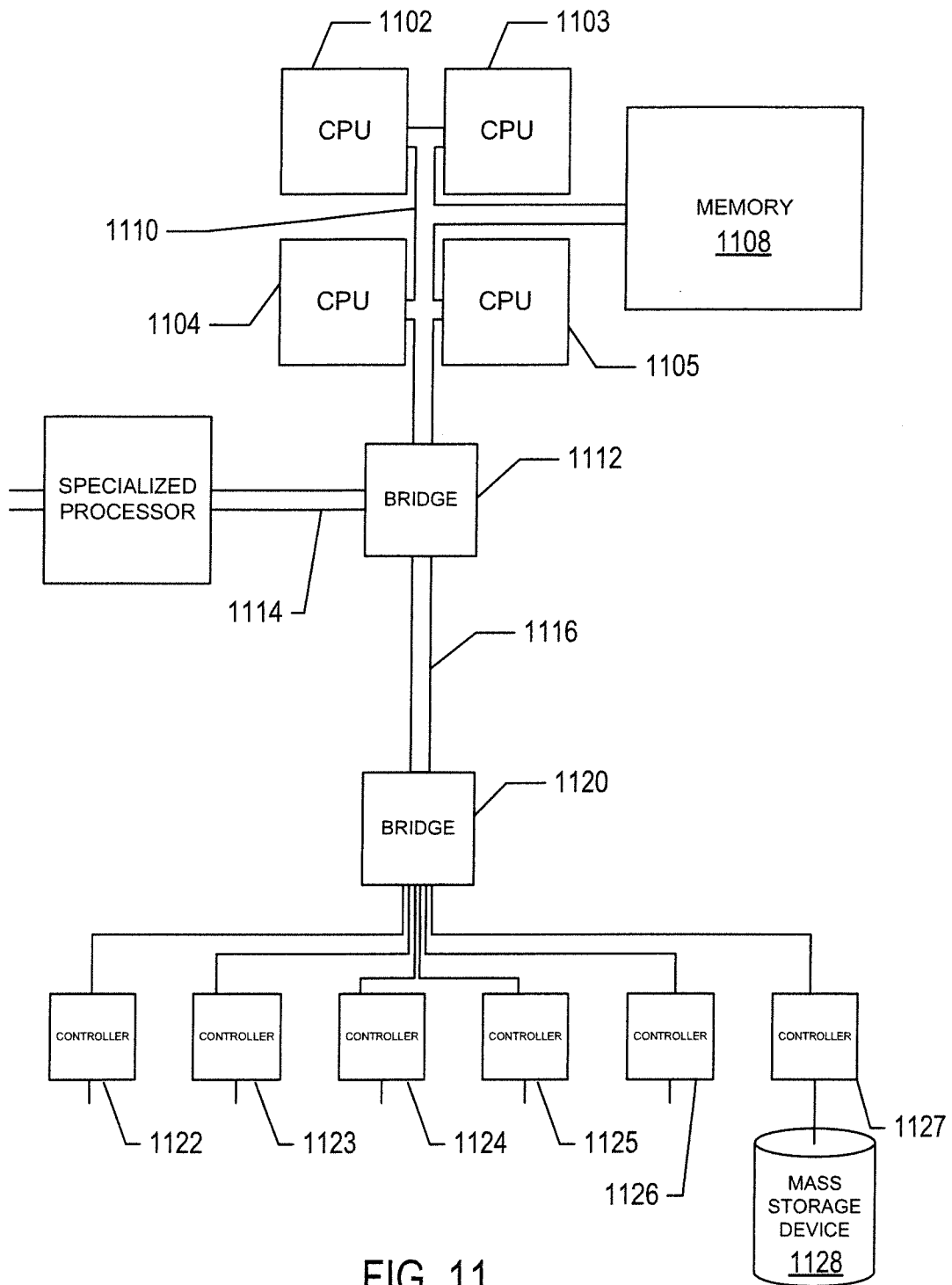


FIG. 11

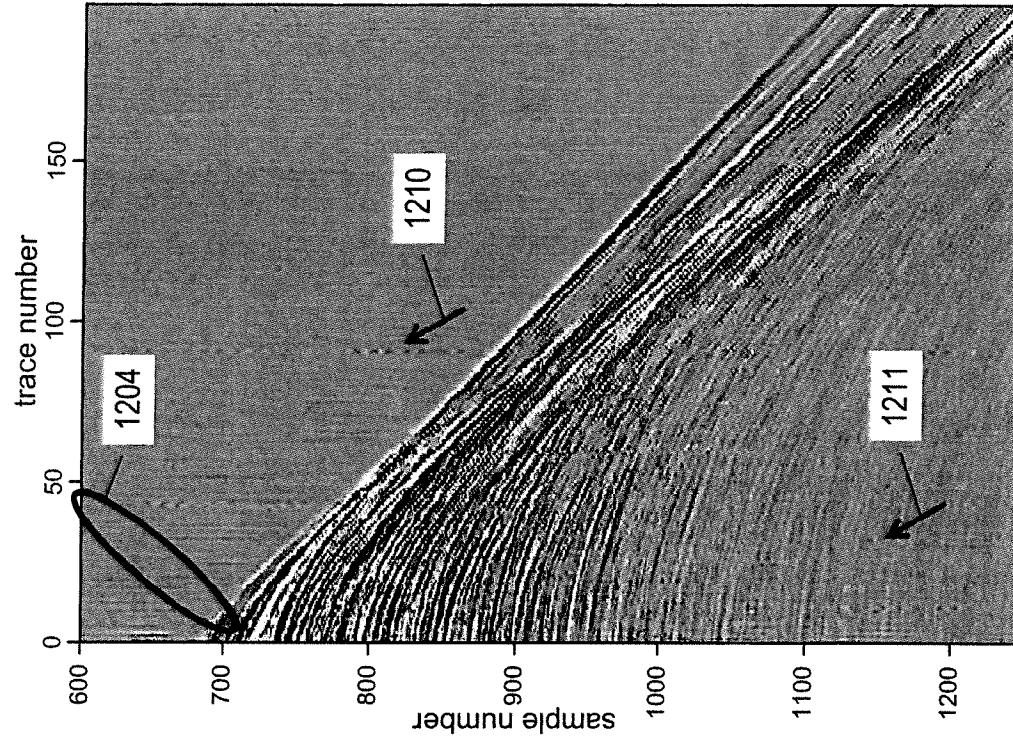


FIG. 12A

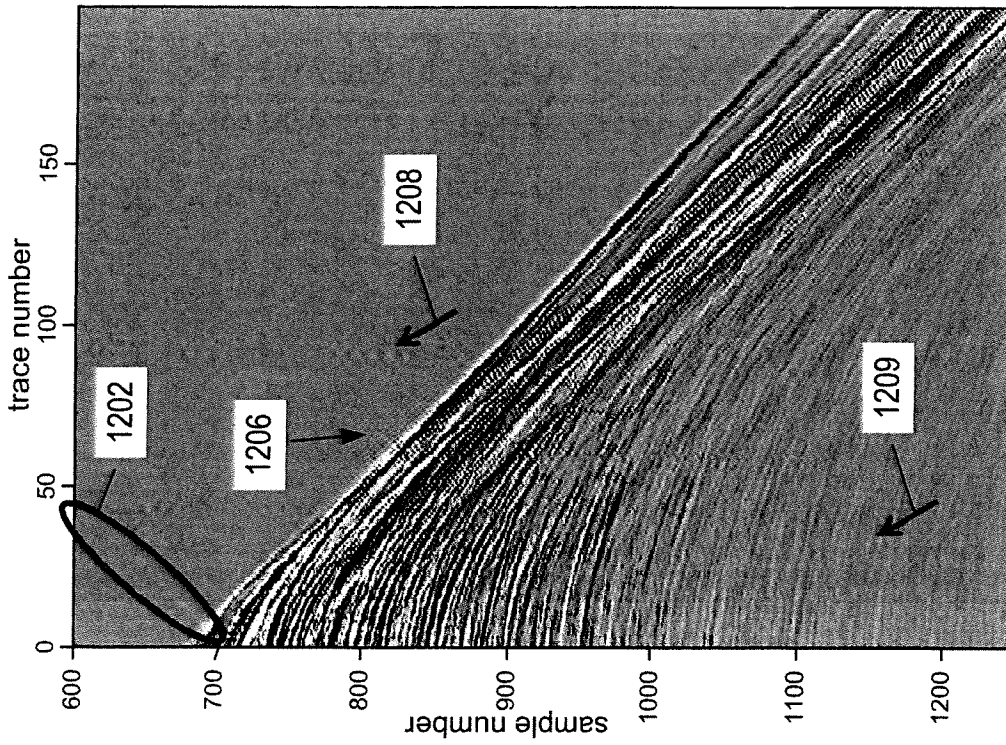


FIG. 12B

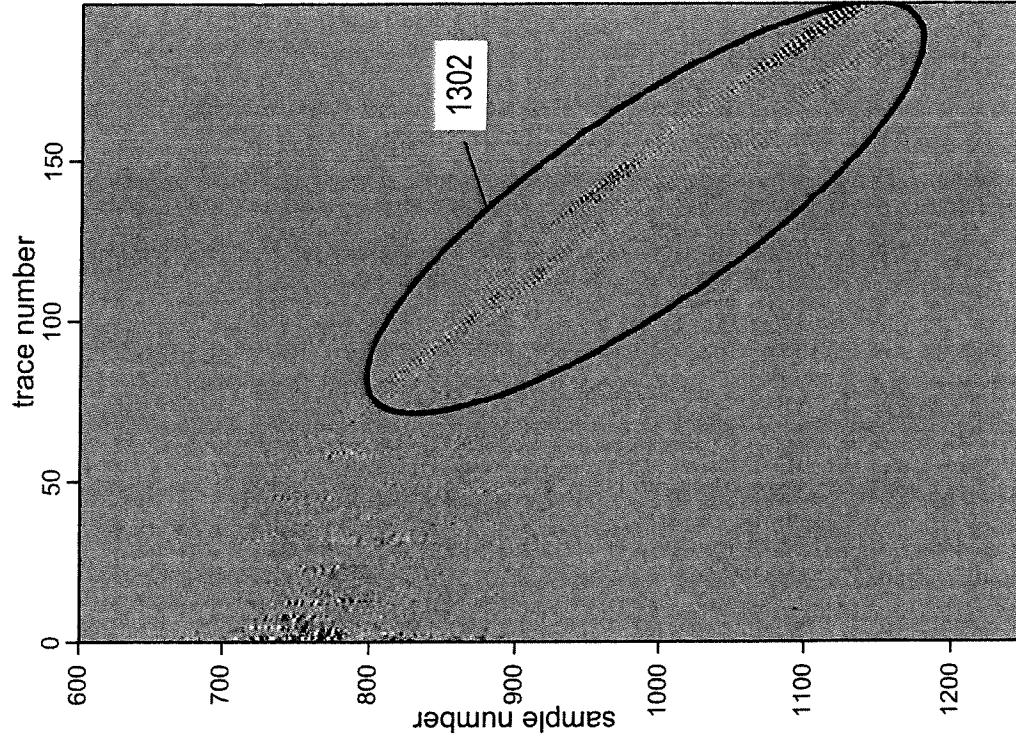


FIG. 13A

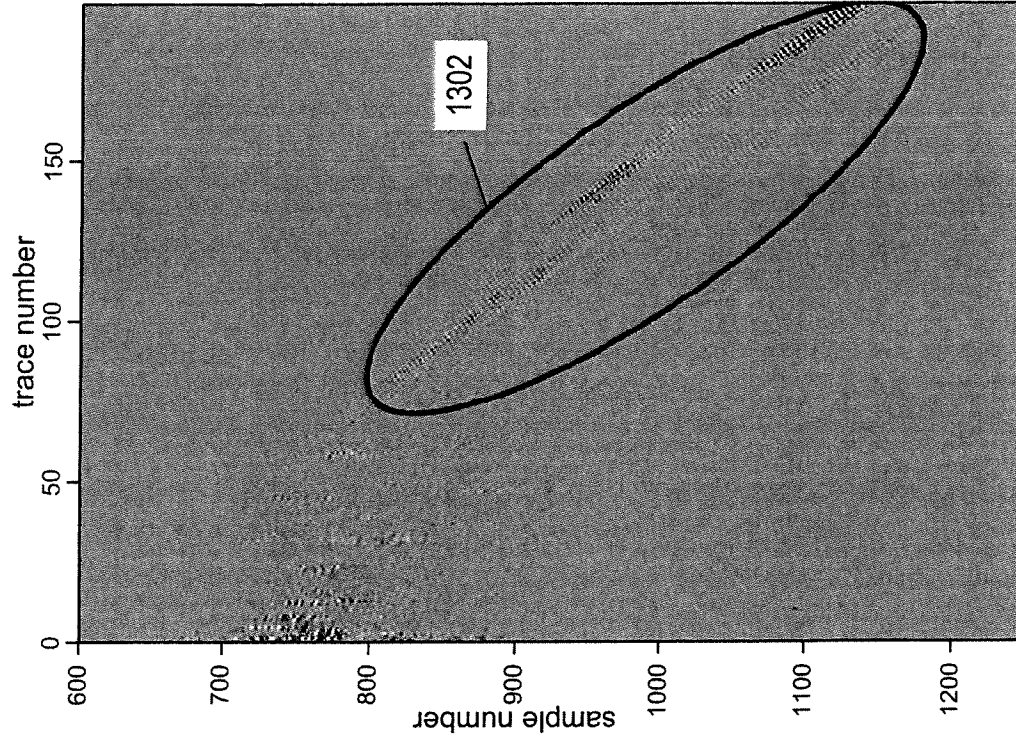


FIG. 13B