

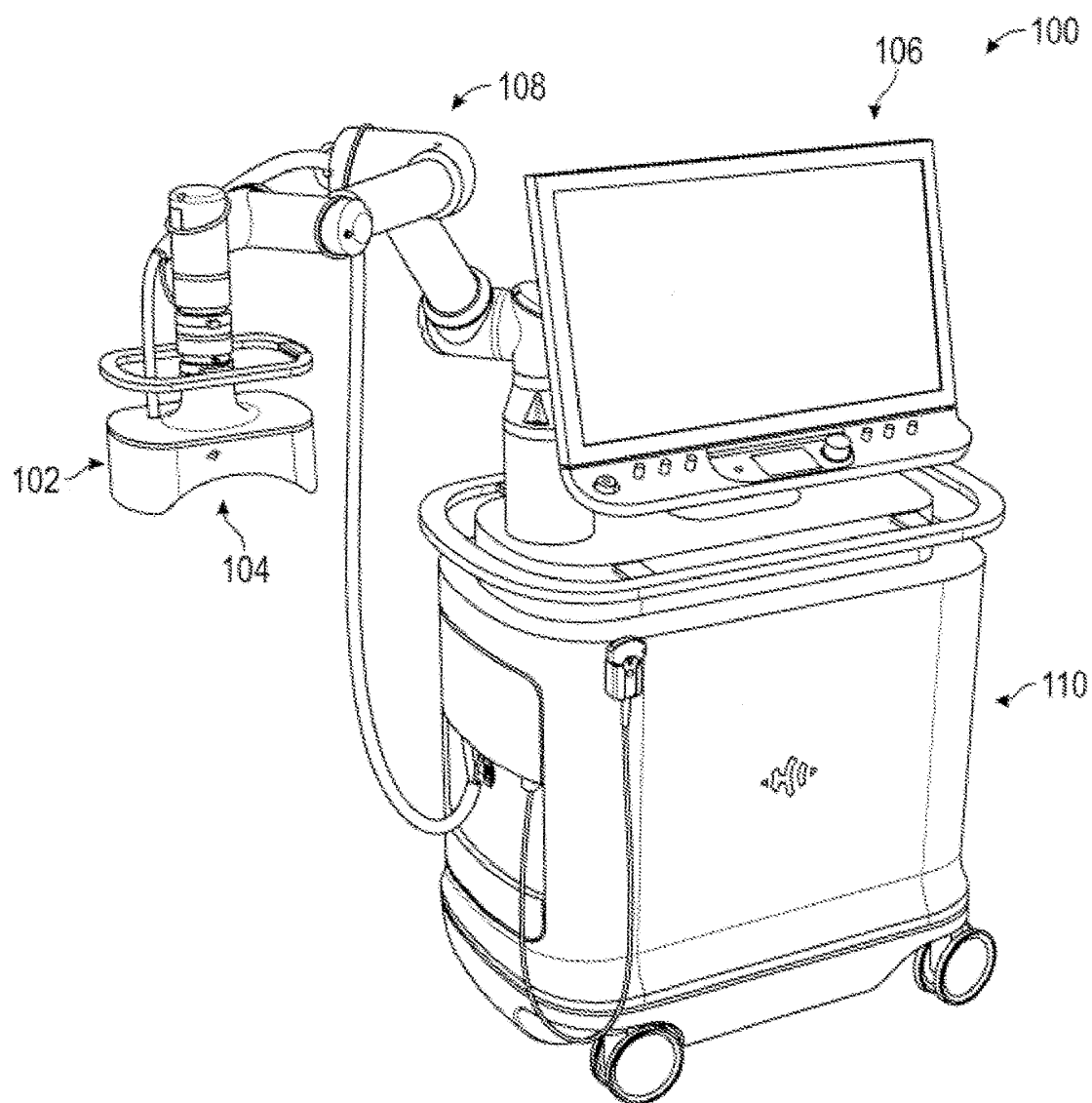


FIG. 1A

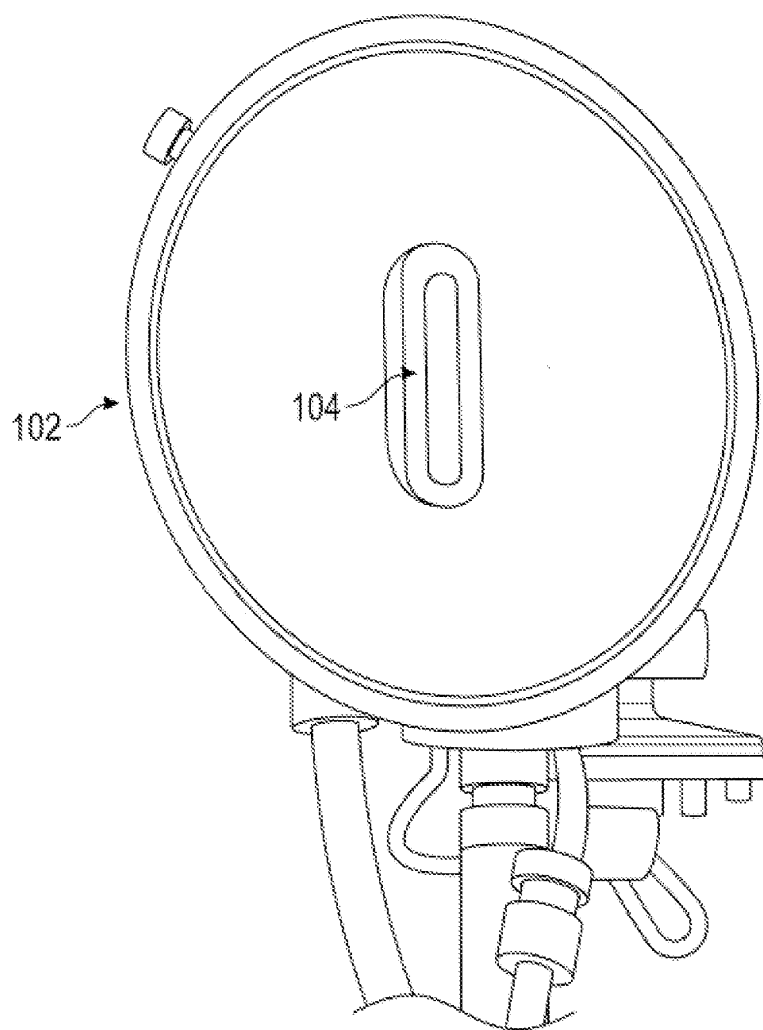


FIG. 1B

FIG. 2

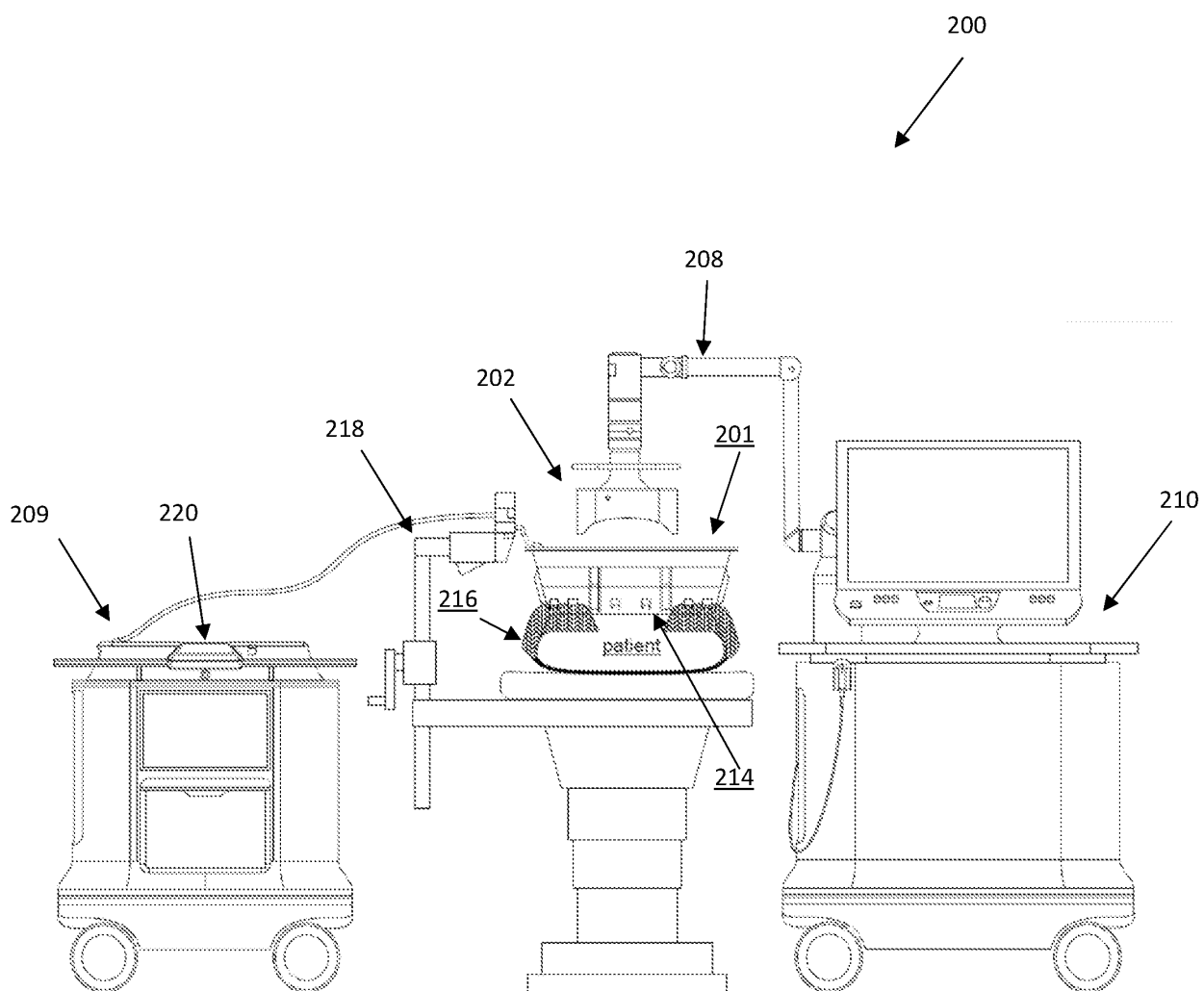


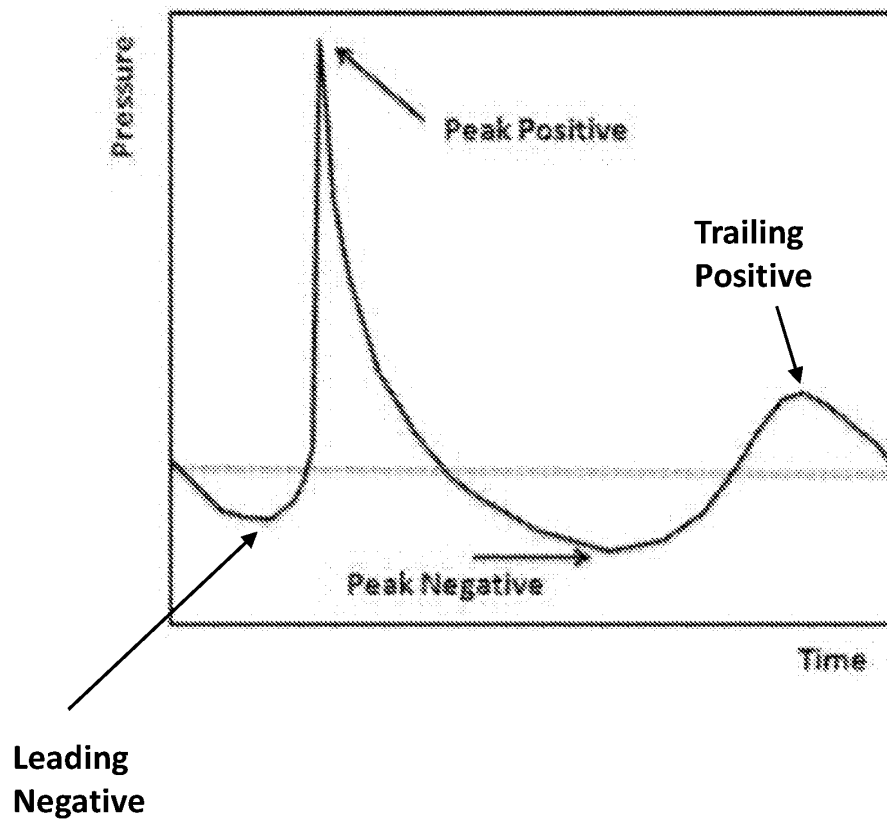
FIG. 3

FIG. 4A

$$w(t) = \begin{cases} 0, & t < 0.35 \\ e^{(-\frac{4d}{30}+9)(t-1)}, & \text{else} \end{cases}$$

Diagram illustrating the function $w(t)$ (402). The function is defined piecewise: it is 0 (403) for $t < 0.35$ (405), and follows the exponential expression $e^{(-\frac{4d}{30}+9)(t-1)}$ (403) otherwise.

FIG. 4B

$$w'_i = N * w\left(\frac{i}{N-1}\right) / \sum_{k=0}^{N-1} w\left(\frac{k}{N-1}\right)$$

Diagram illustrating the calculation of w'_i (404). The formula shows w'_i (404) is equal to N (408) multiplied by $w\left(\frac{i}{N-1}\right)$ (406), divided by the sum of $w\left(\frac{k}{N-1}\right)$ for k from 0 to $N-1$.

FIG. 5A

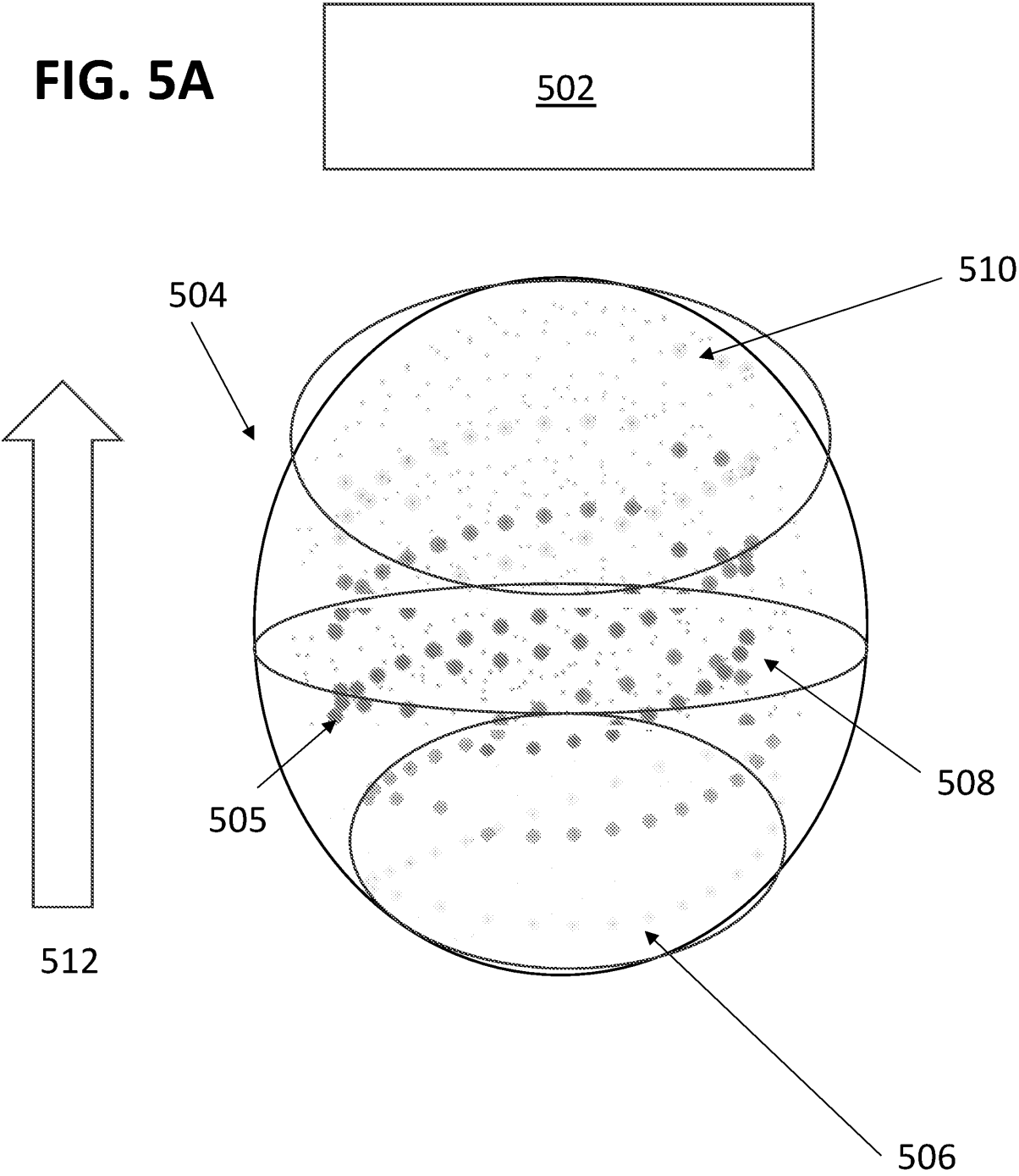


FIG. 5B

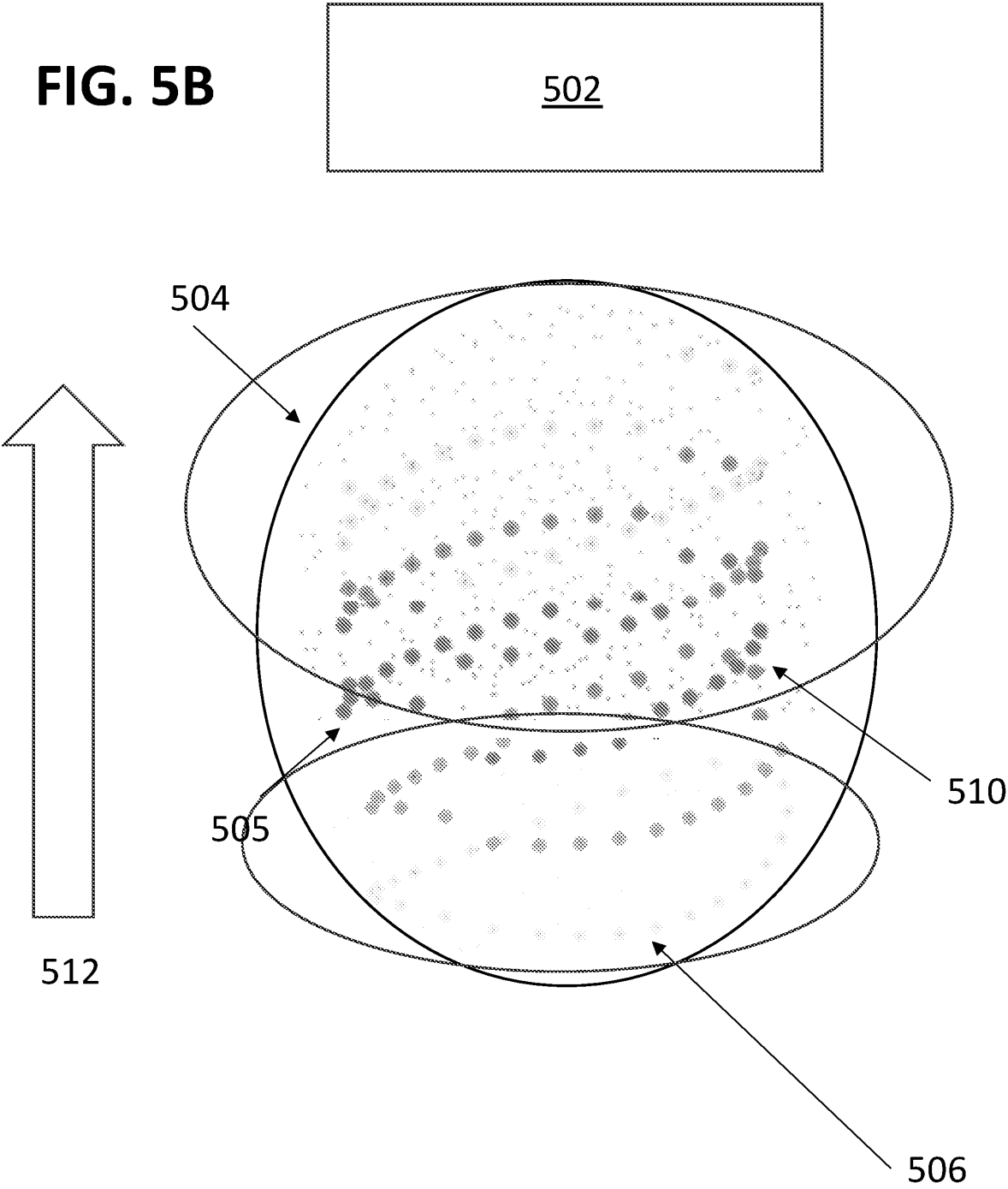


FIG. 6A Normalized Weights (depth=30mm, 2cm sphere) 601

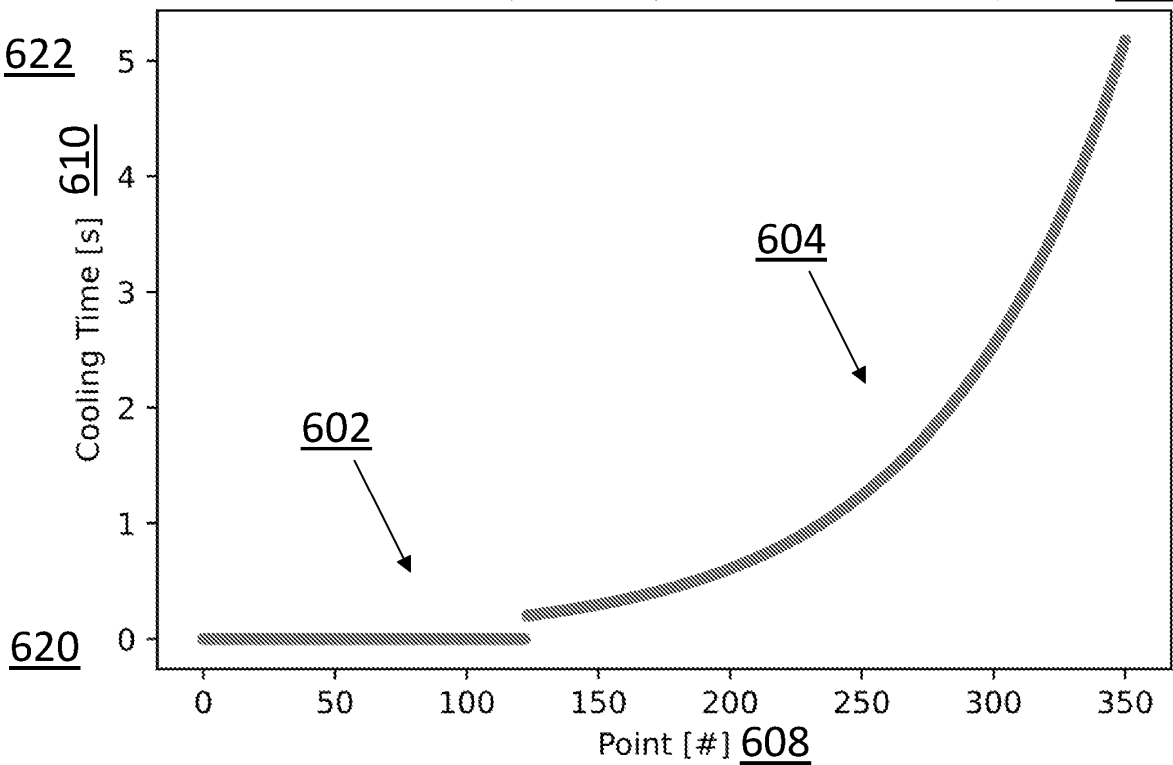


FIG. 6B Sequence Distribution (depth=30mm, 2cm sphere) 603

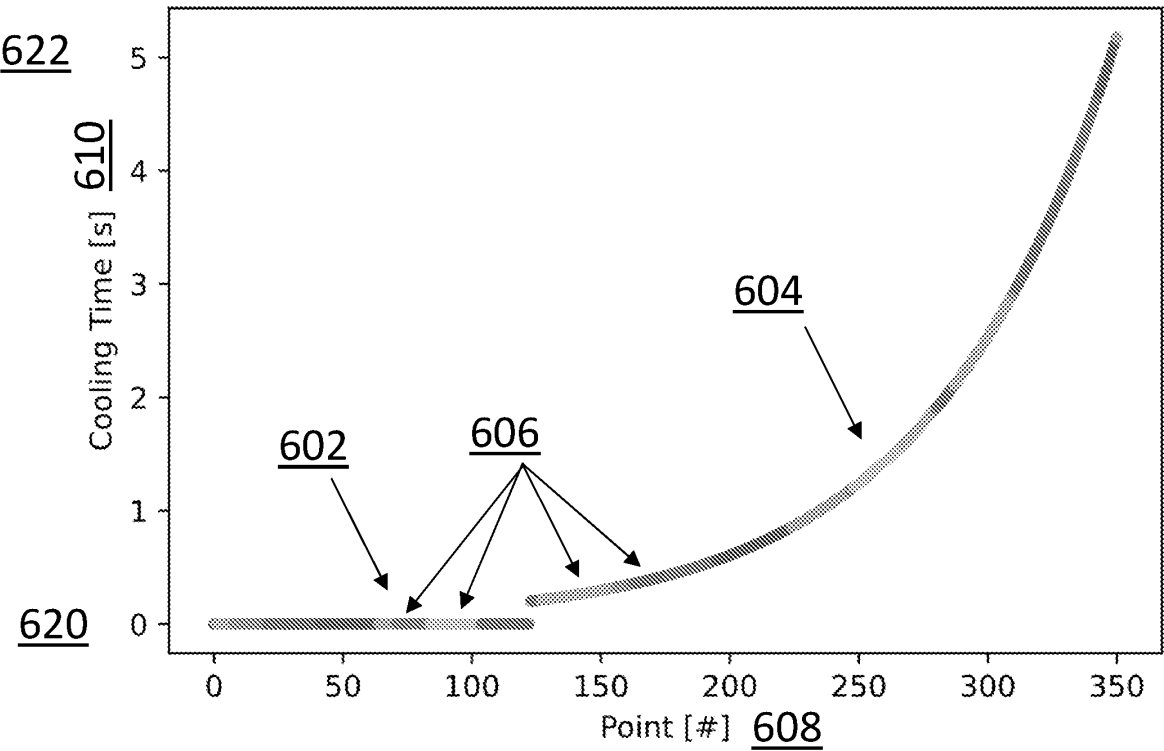


FIG. 6C

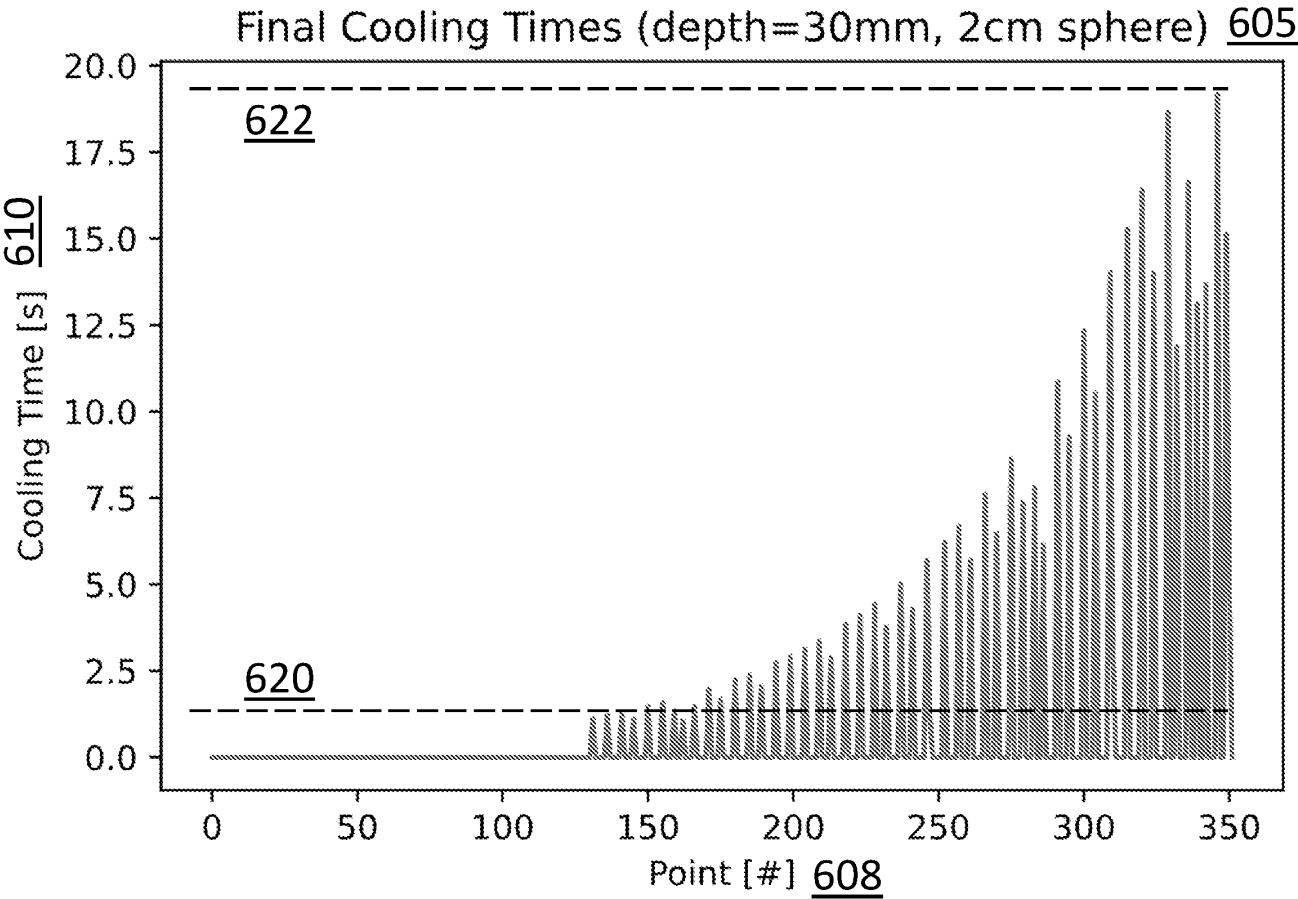


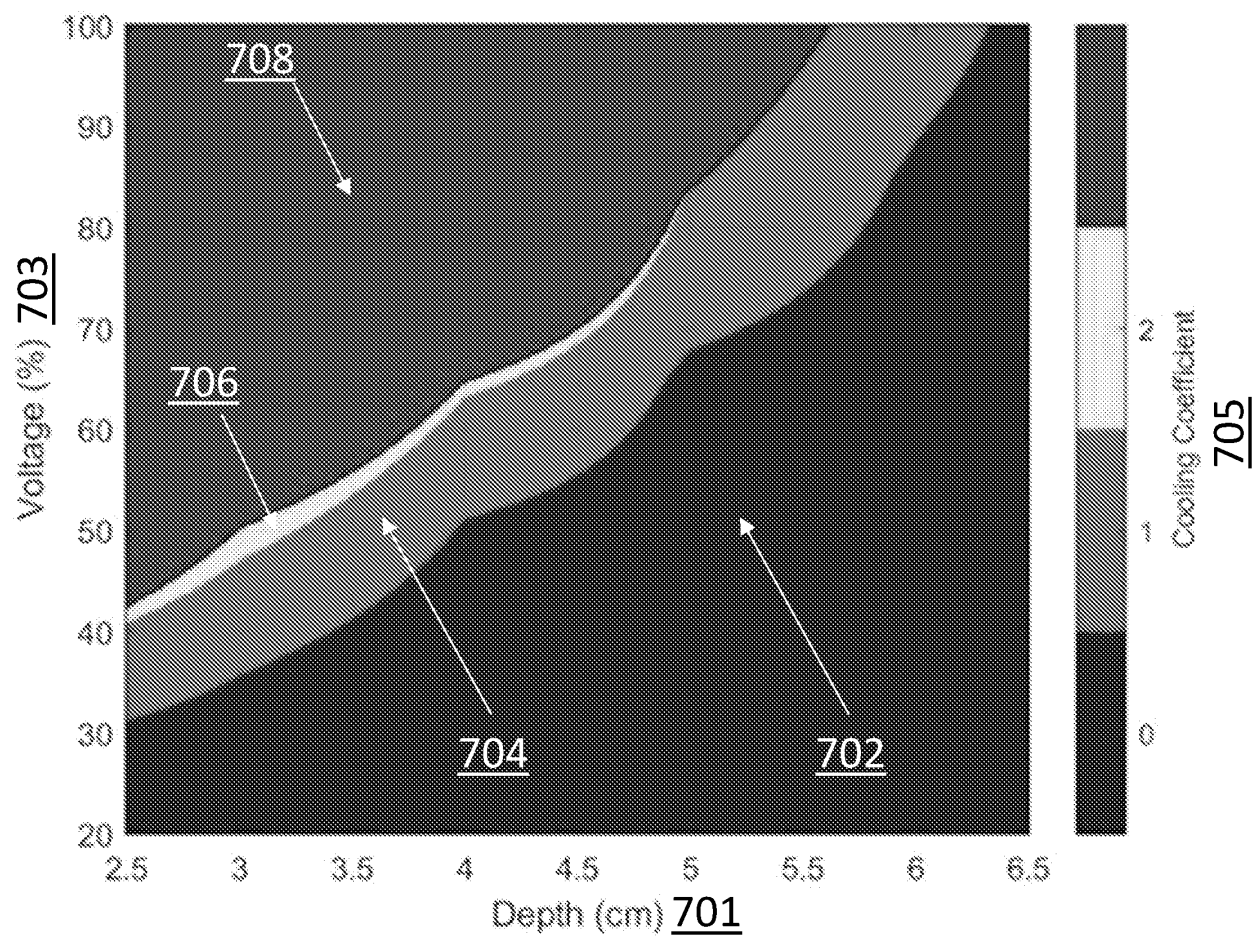
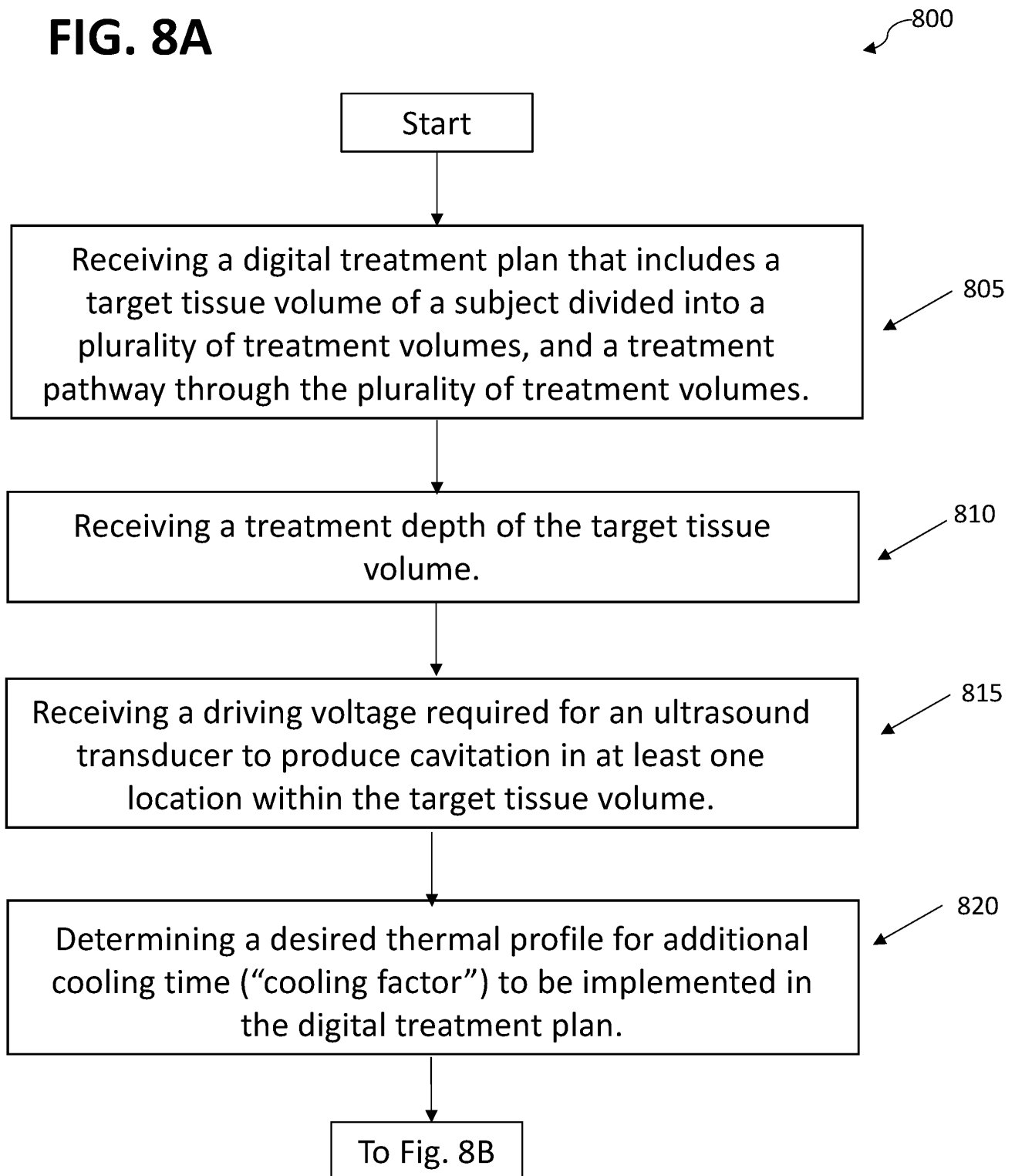
FIG. 7

FIG. 8A

801

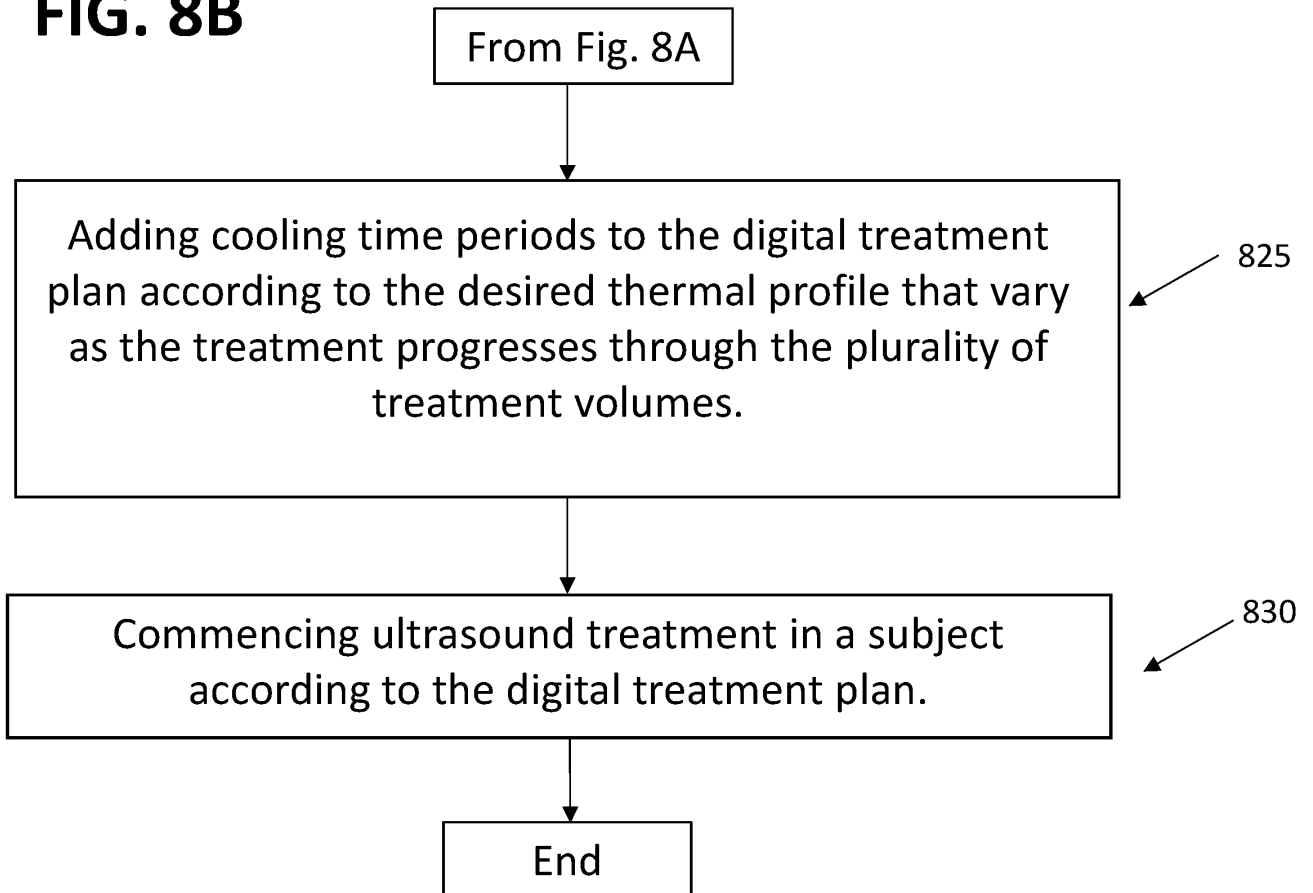
FIG. 8B

FIG. 9