

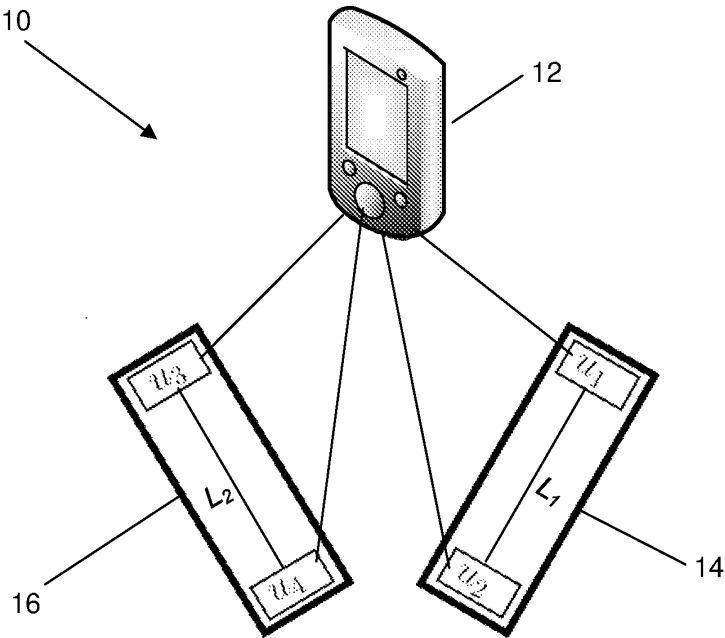


FIGURE 1

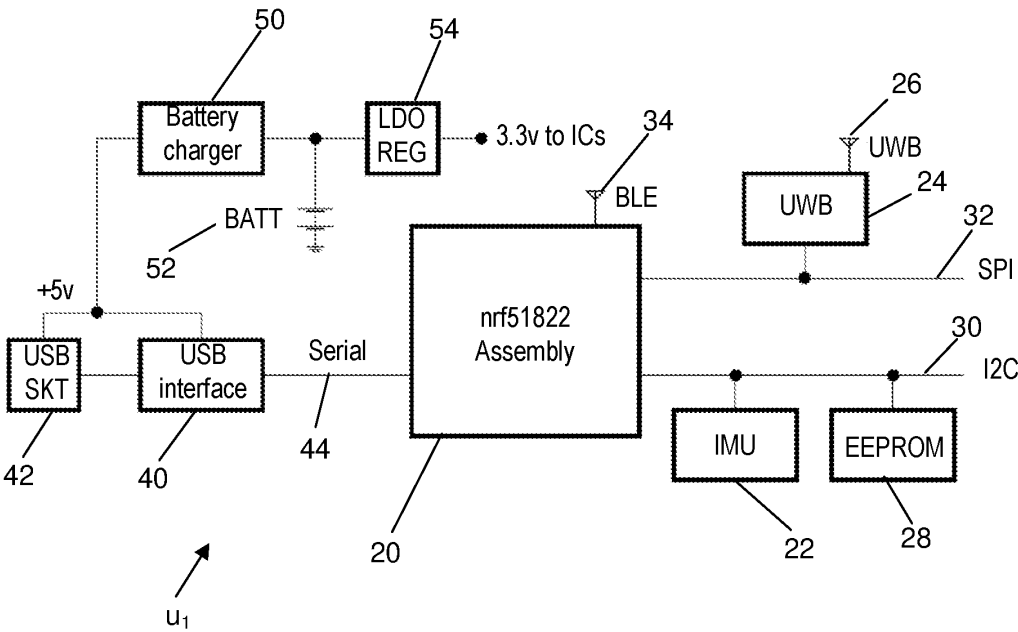


FIGURE 2

2/17

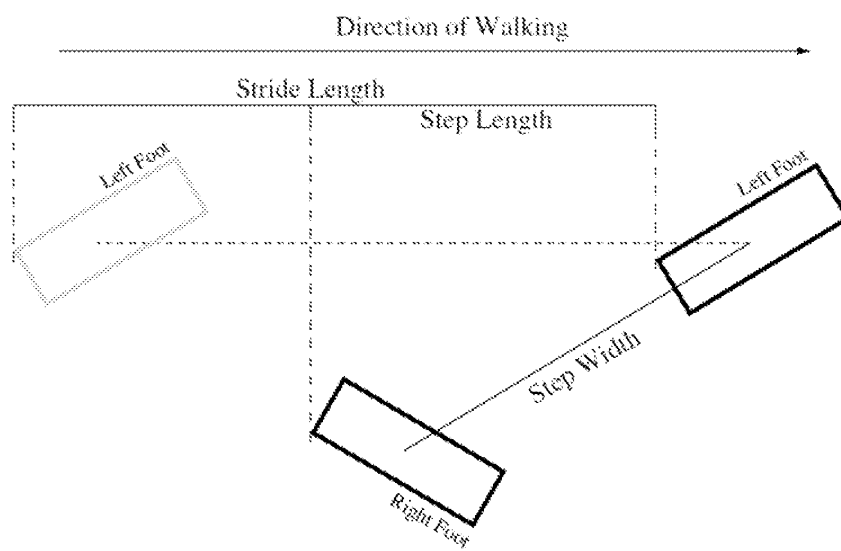


FIGURE 3

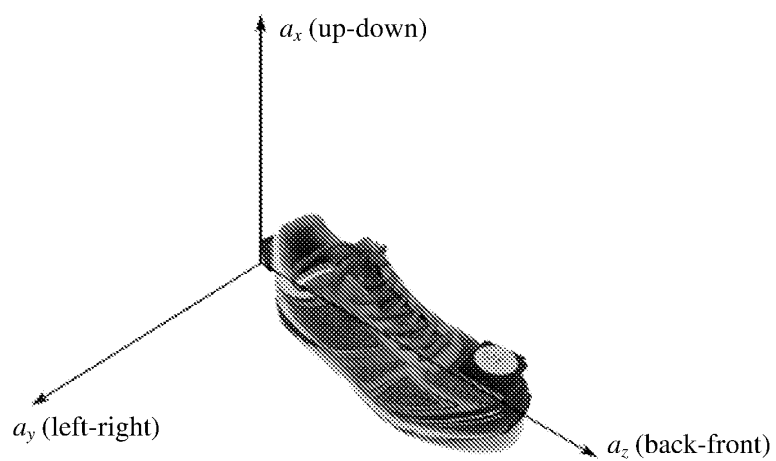
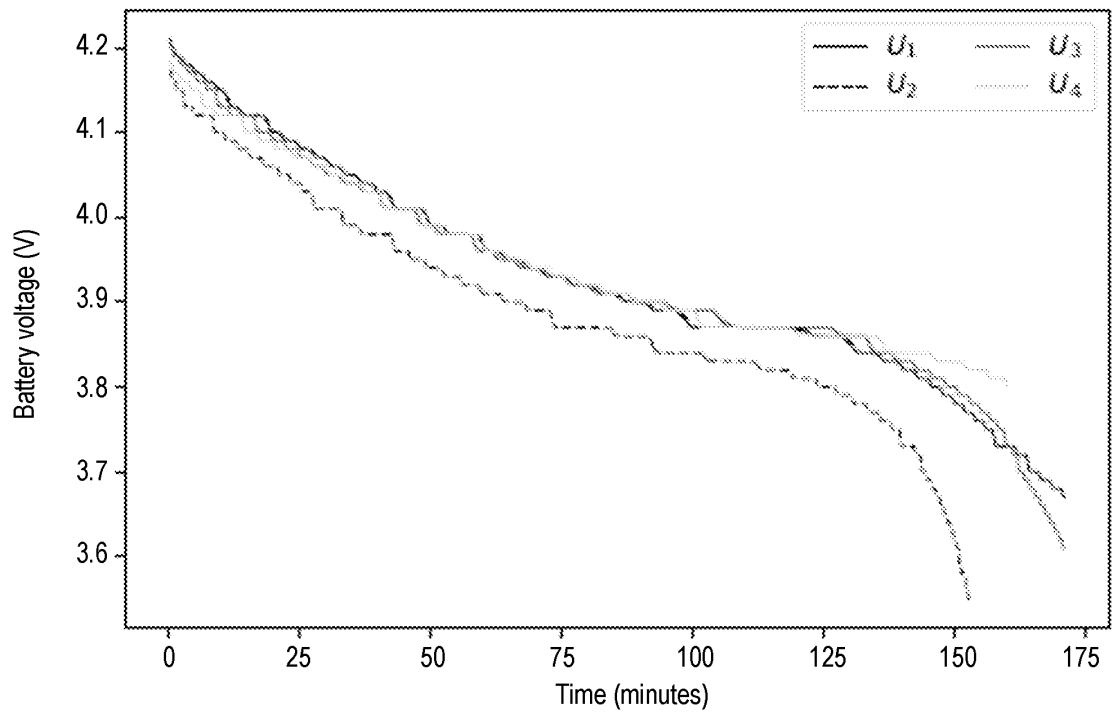
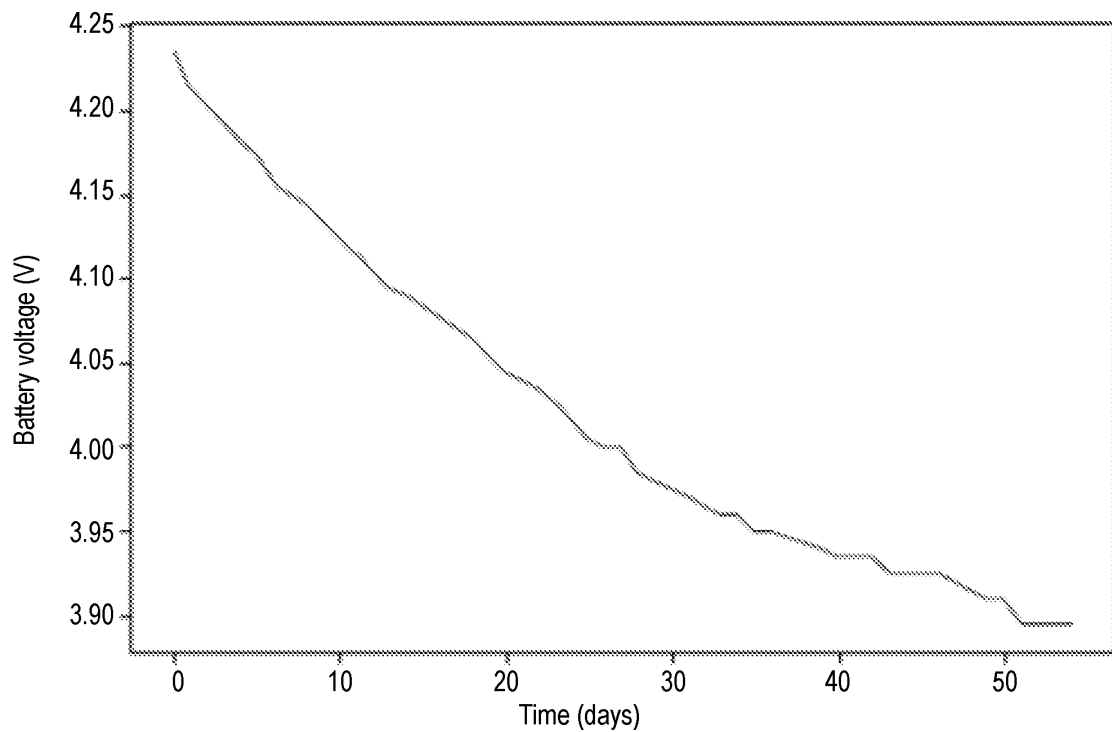


FIGURE 4

3/17



(a) Continuous-use case



(b) Long-term standby case

FIGURE 5

4/17

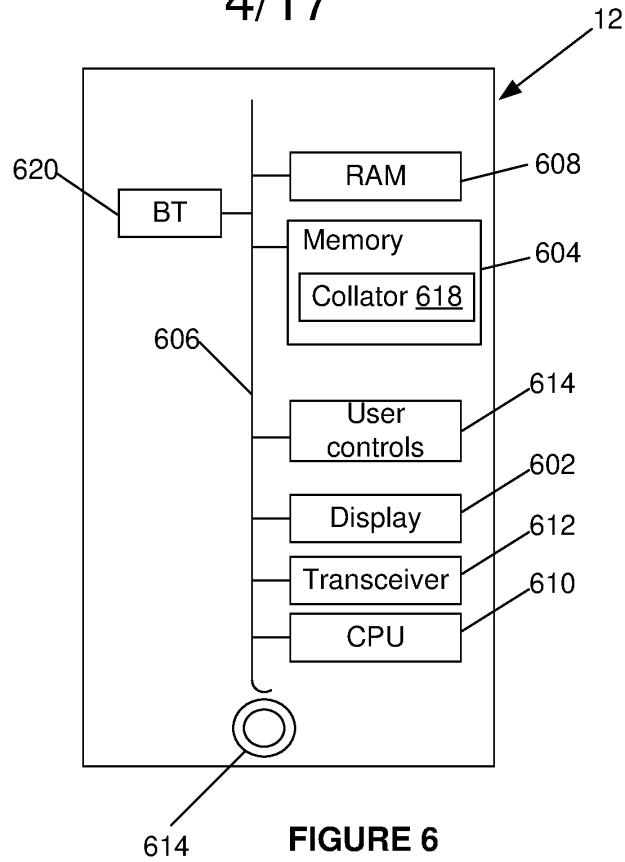


FIGURE 6

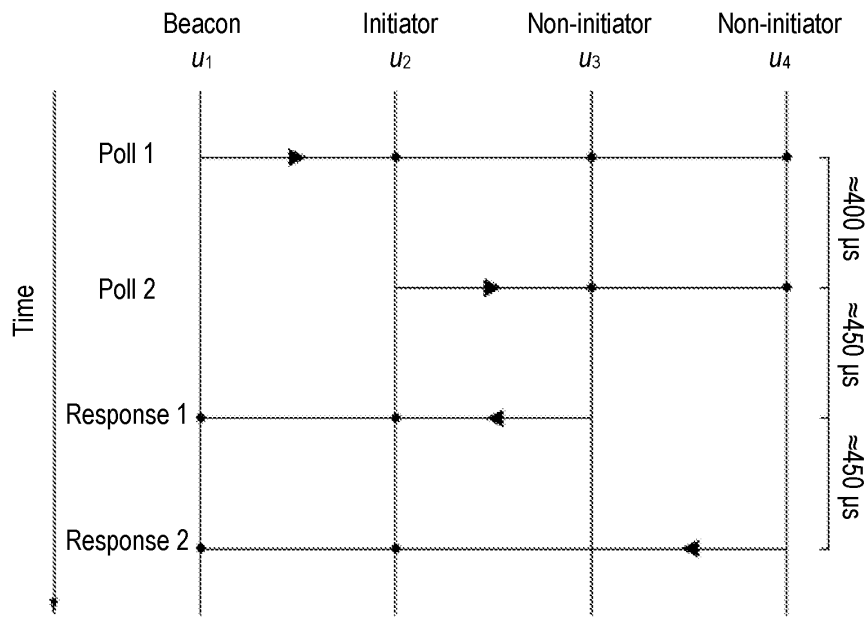


FIGURE 7

5/17

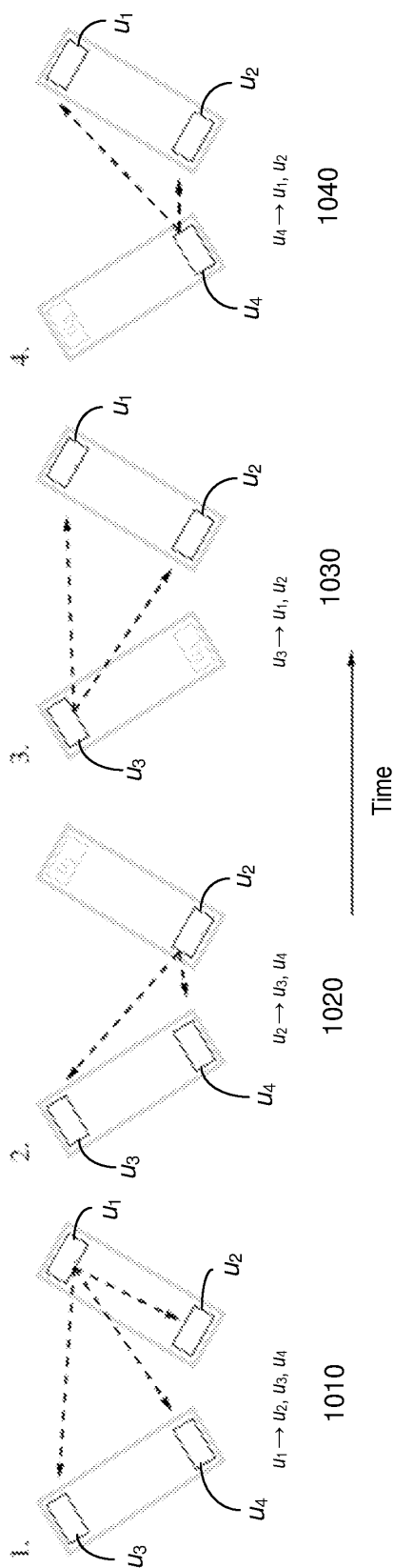


FIGURE 8

6/17

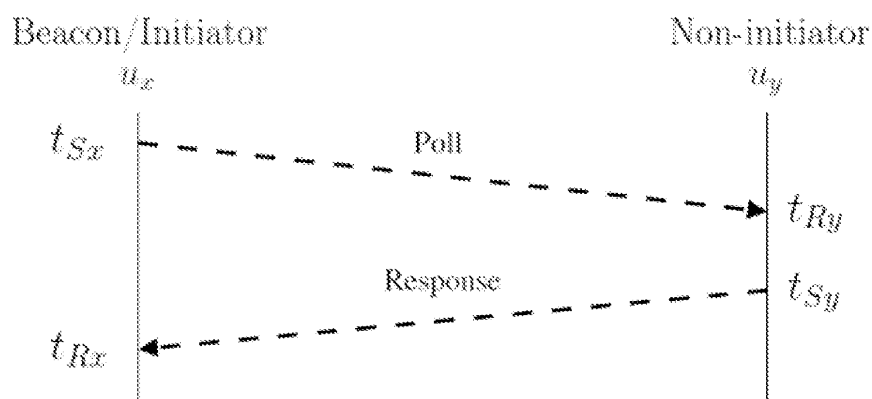


FIGURE 9

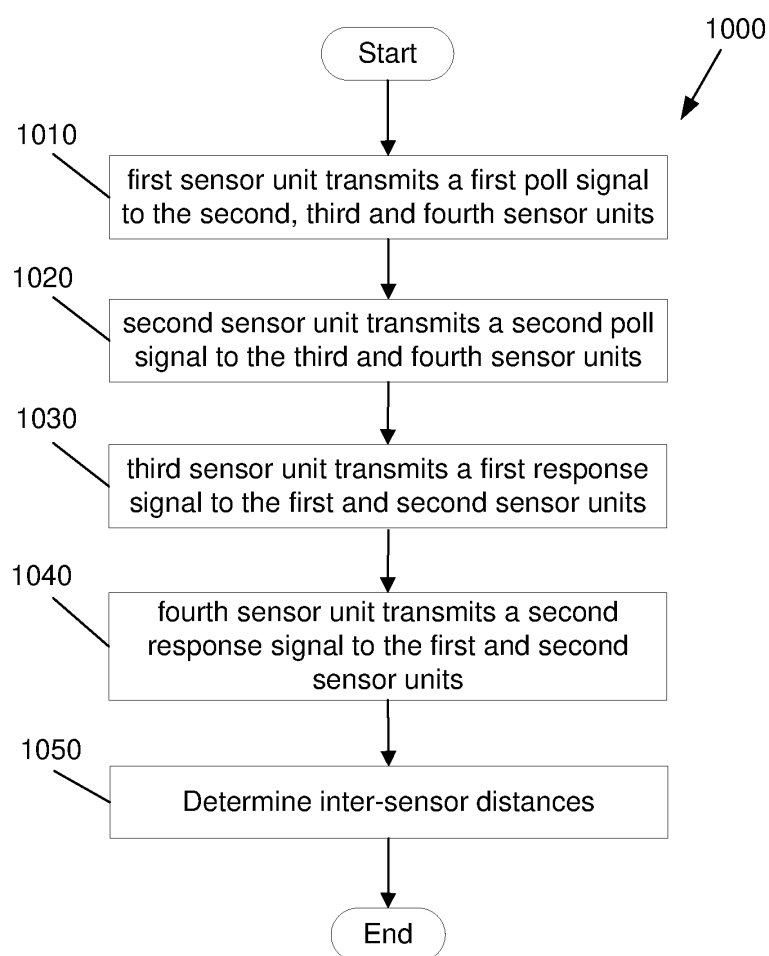
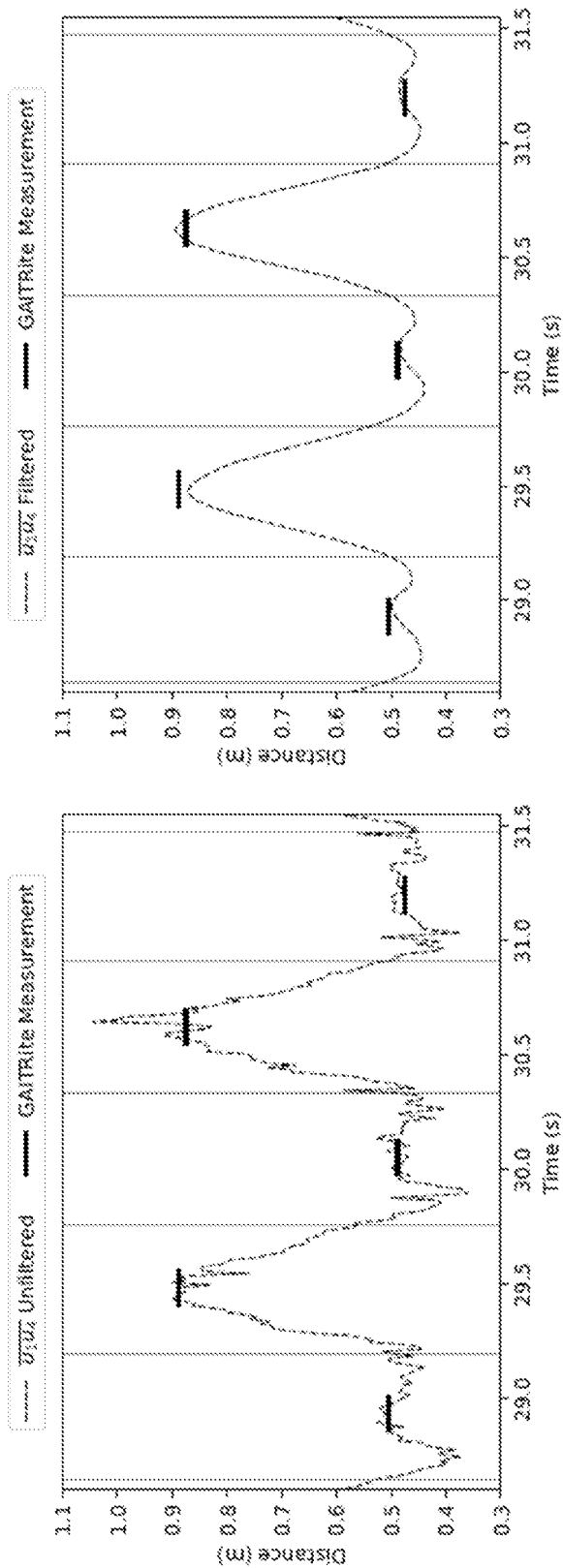


FIGURE 10

7/17



(a) Raw Unfiltered UWB Signal

(b) Savitzky-Golay Filtered UWB Signal

FIGURE 11

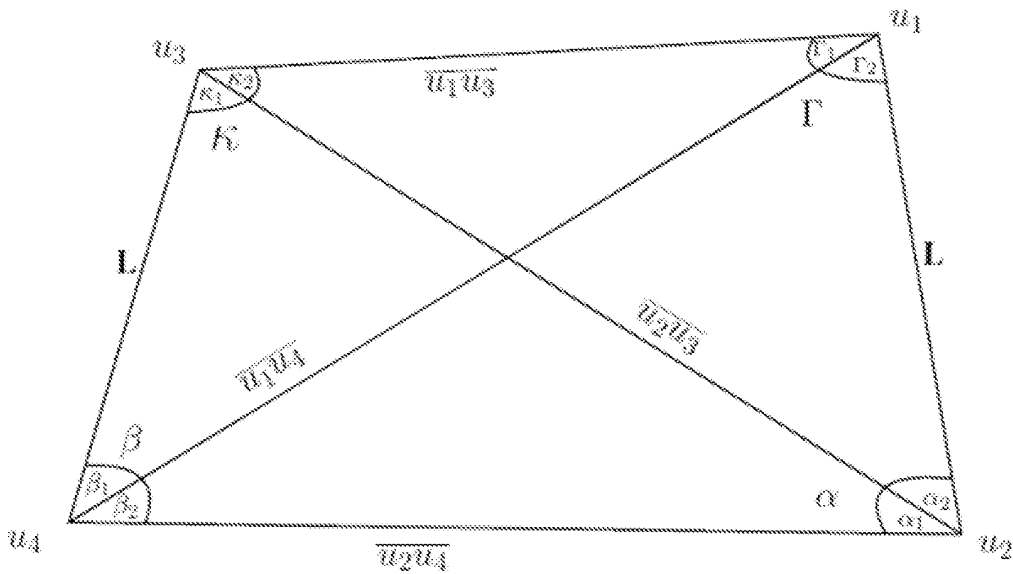


FIGURE 12

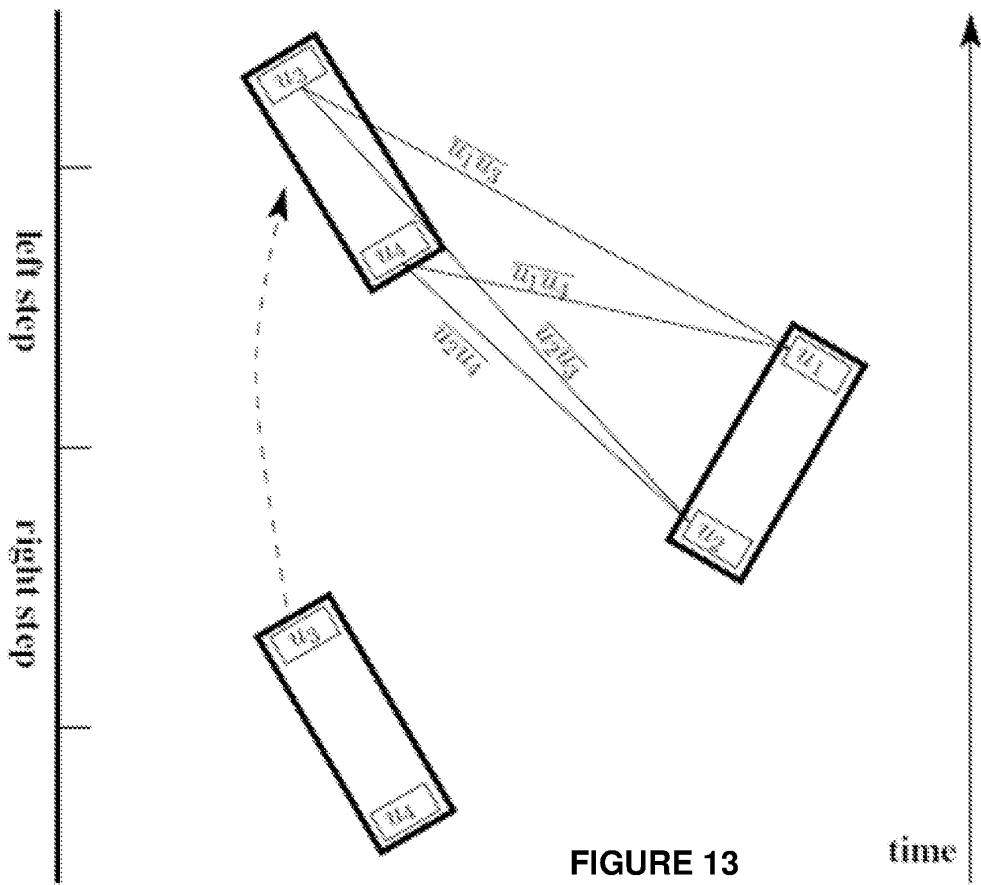


FIGURE 13

9/17

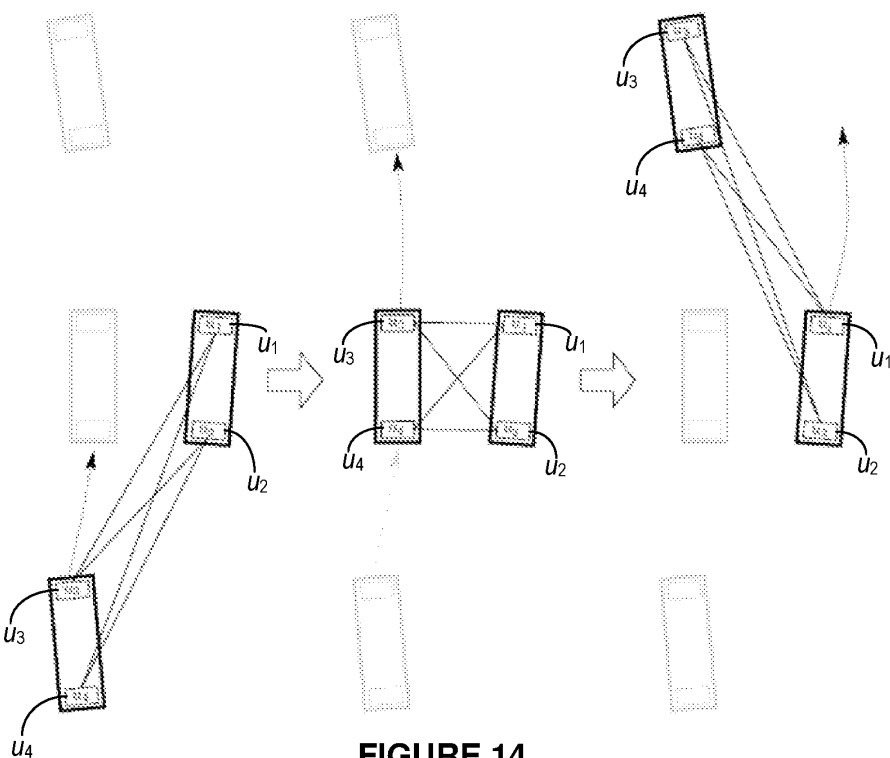


FIGURE 14

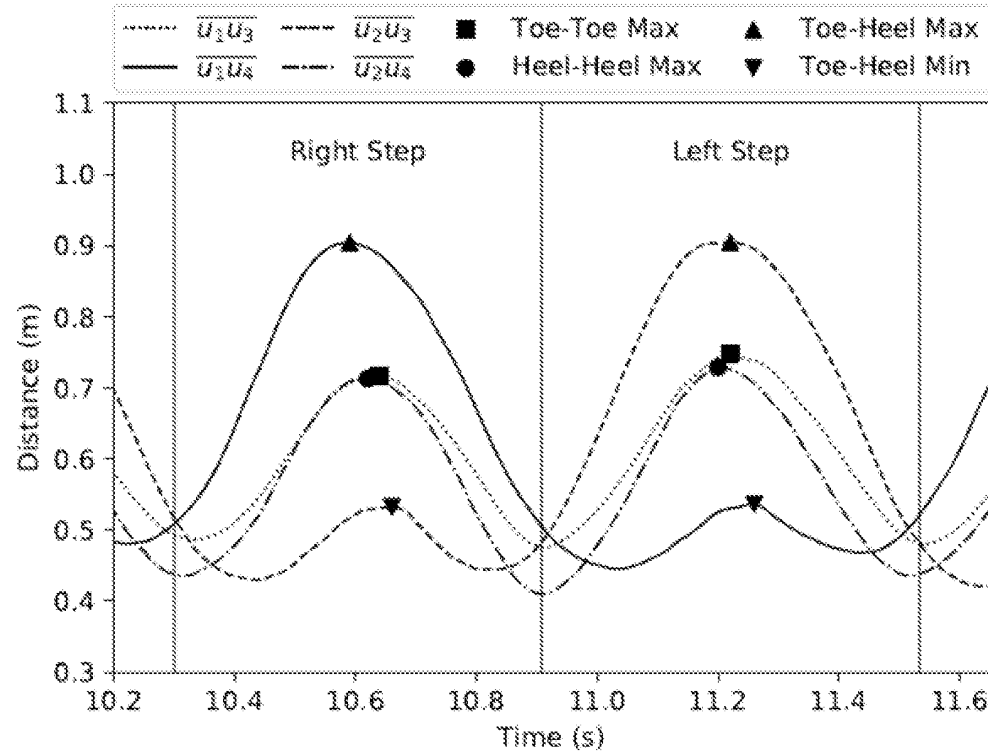


FIGURE 15

10/17

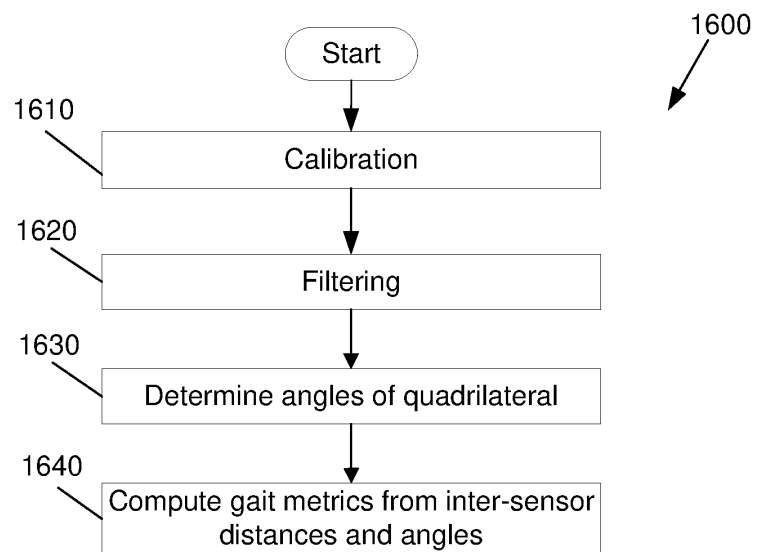


FIGURE 16

11/17

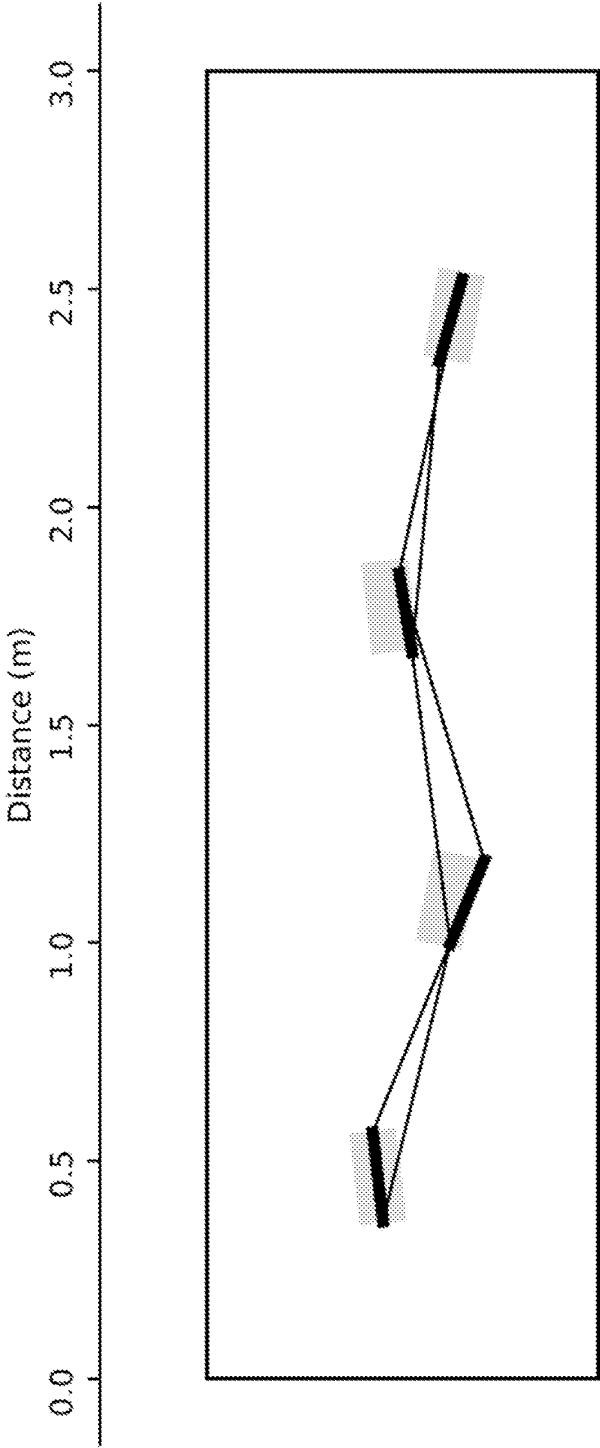


FIGURE 17

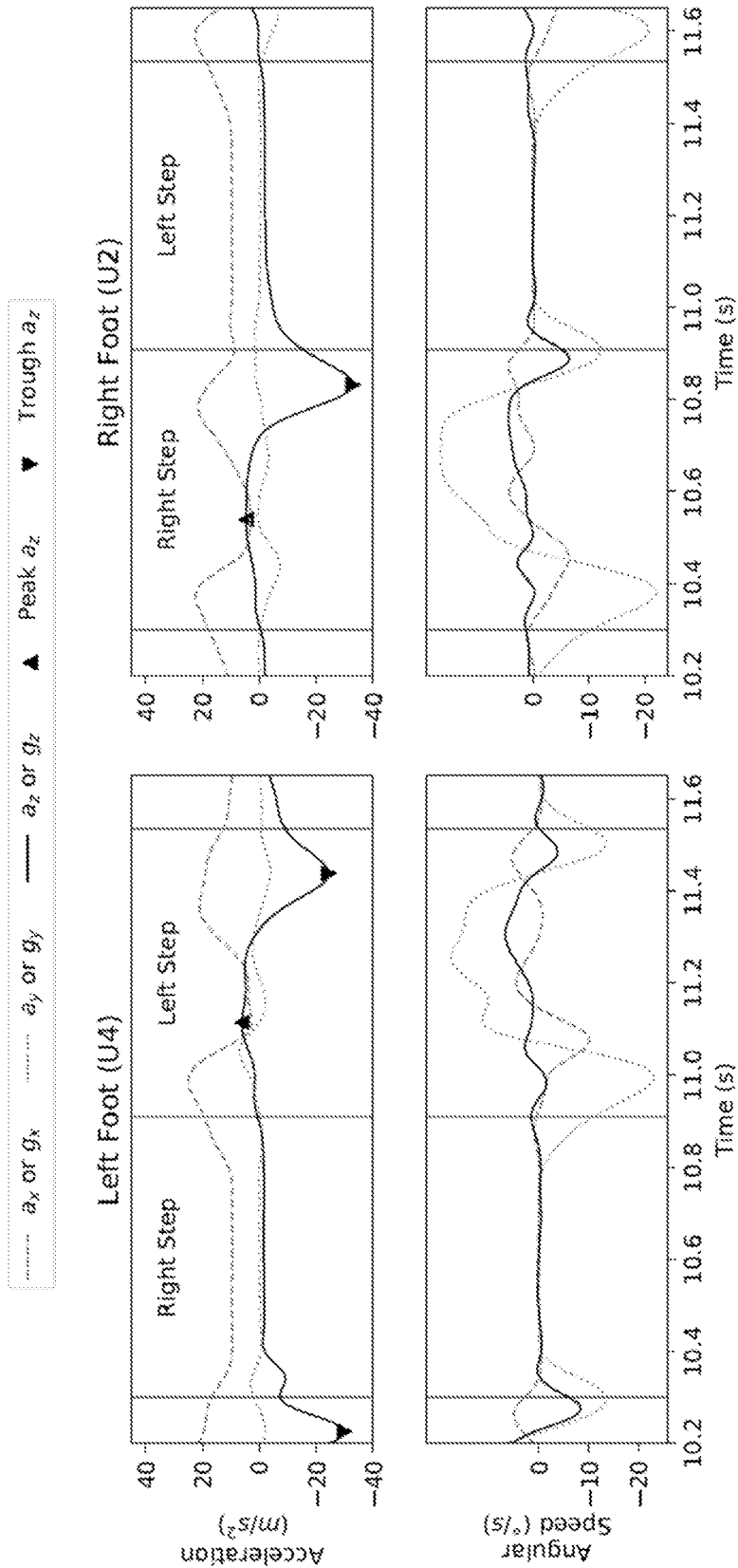


FIGURE 18

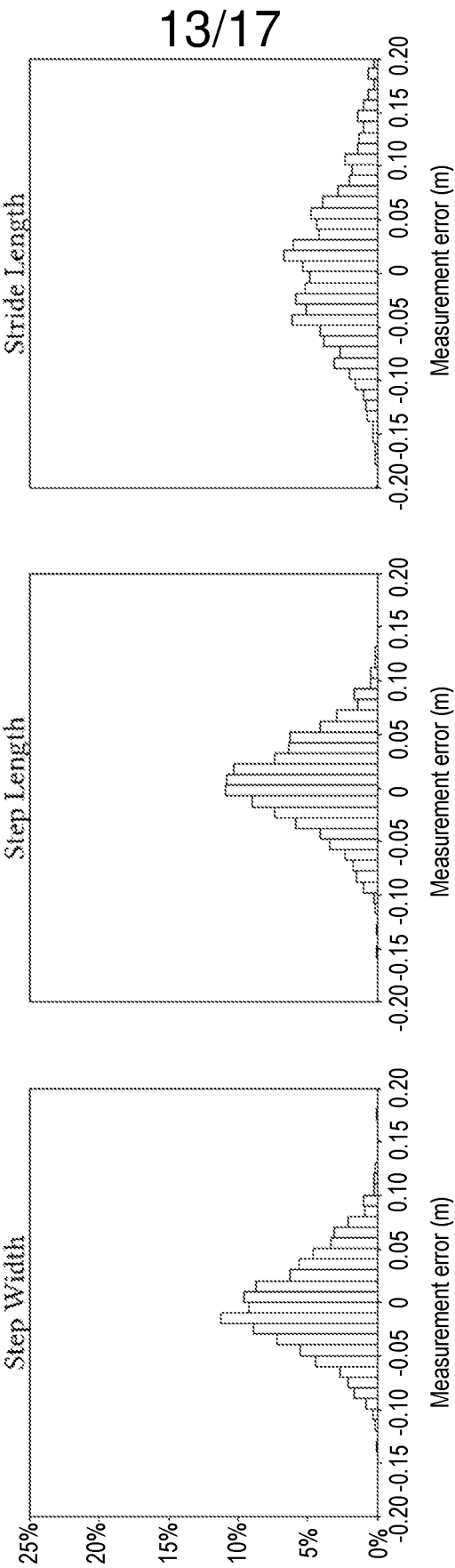


FIGURE 19

14/17

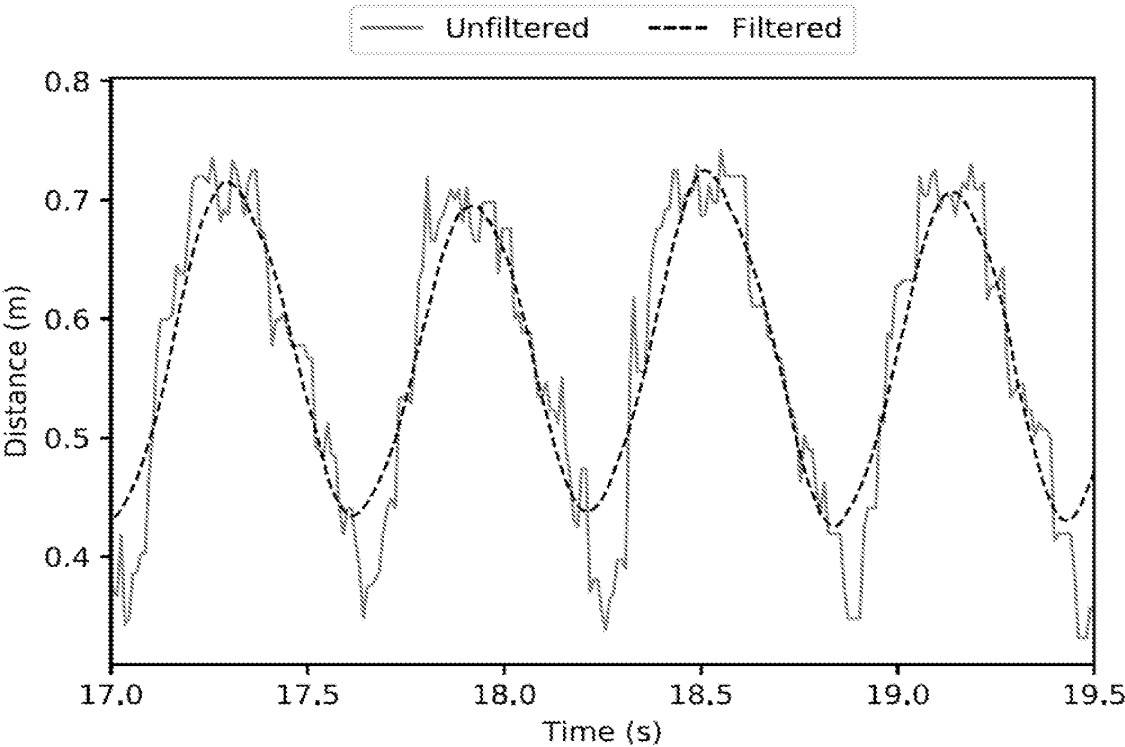


FIGURE 20

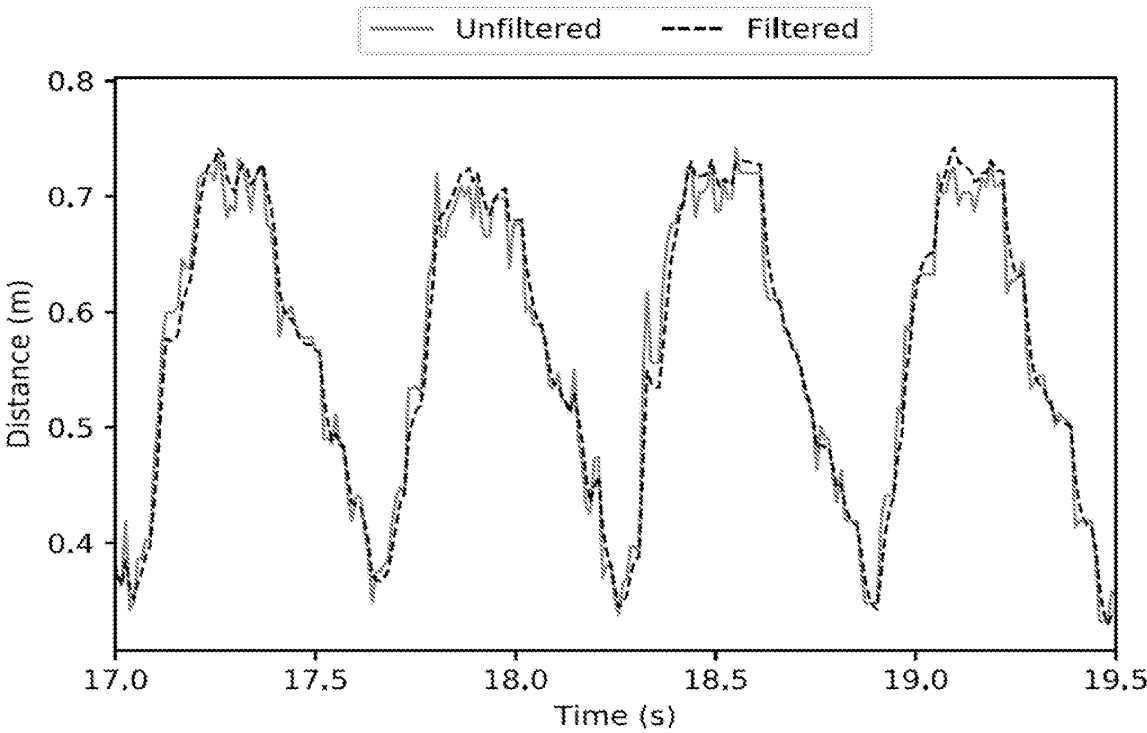


FIGURE 21

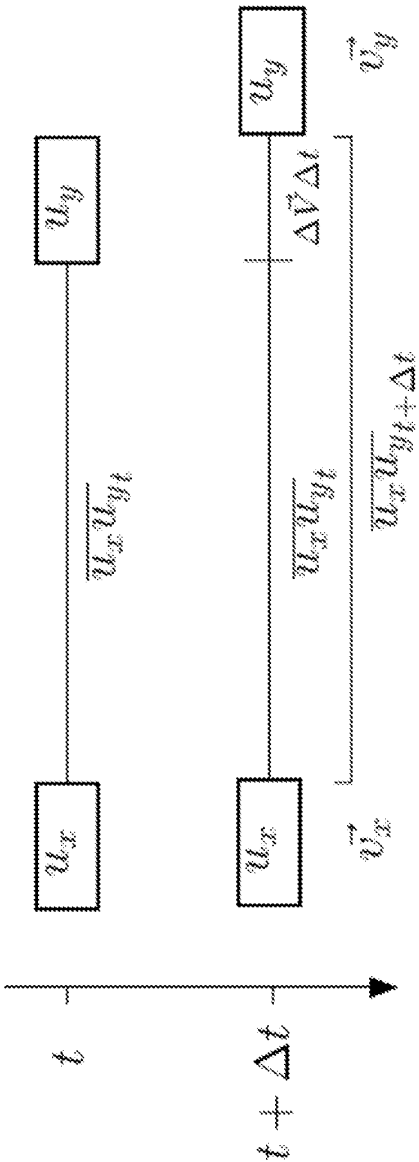


FIGURE 22

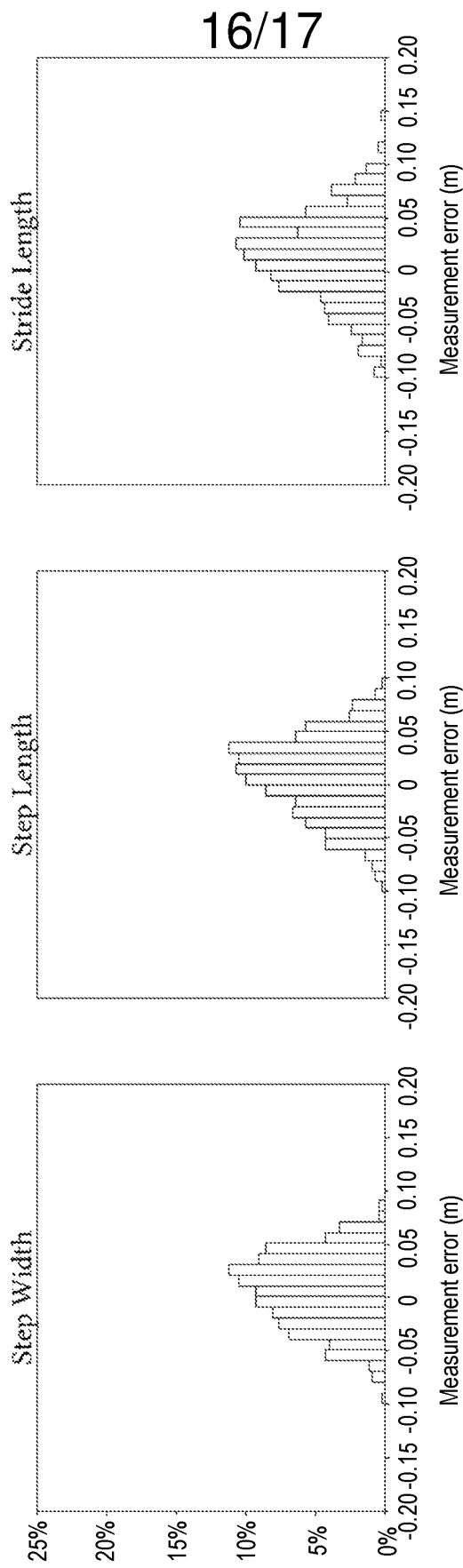


FIGURE 23

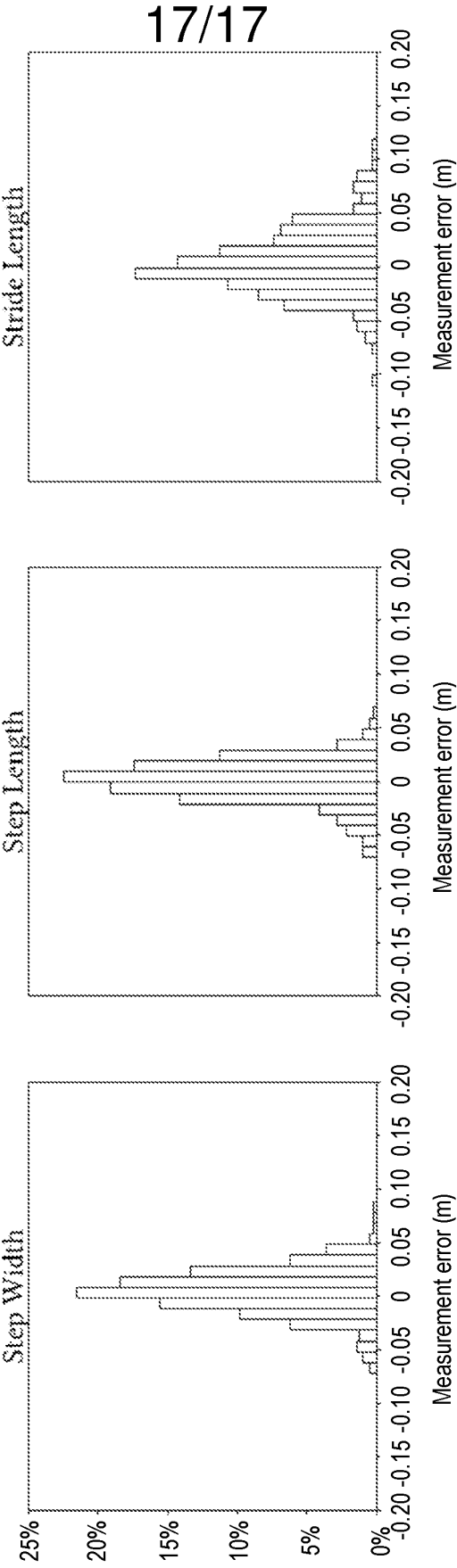


FIGURE 24