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[Continued on next page]

(54) Title: BOVINE RUMINATION AND ESTRUS PREDICTION SYSTEM (BRES) AND METHOD

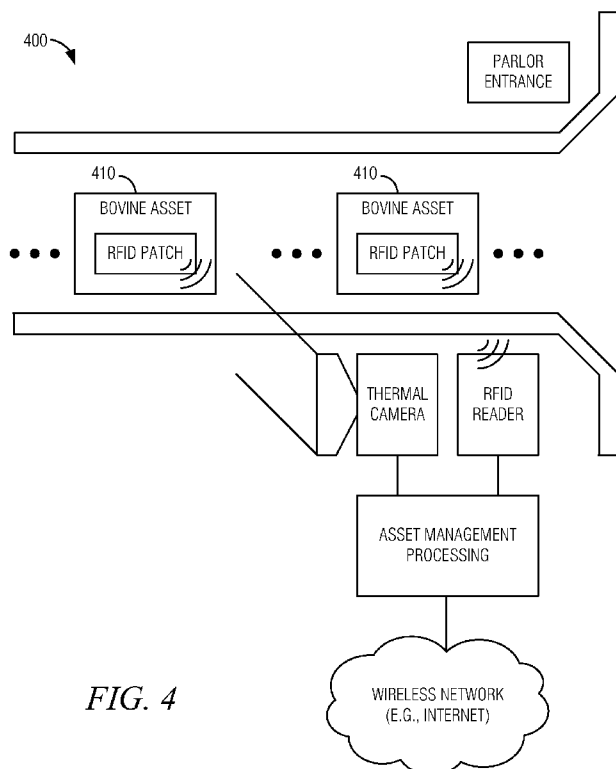


FIG. 4

(57) Abstract: A bovine monitoring system may include a rumination sensor, a motion sensor, a posture sensor. The rumination sensor may detect chewing by sensing jaw motion. The motion sensor may detect motion. The posture sensor may detect orientation of the bovine asset through detection of gravitational acceleration, detection of gyroscopic rotation, or a combination of gravitational acceleration and gyroscopic rotation. Using the recorded rumination, motion, and posture sensors, the bovine asset monitoring system may identify aberrations in the estrous cycle or physical or mental health of the bovine assets. A bovine monitoring system may include a thermal scanning device to detect localized heating of the vulva area of the bovine asset, which may be used to identify aberrations in the estrous cycle or physical or mental health of the bovine assets.



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C. DOCUMENTS CONSIDERED TO BE RELEVANT				
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.		
X	WO 2012/129657 A1 (BENCH et al) 04 October 2012 (04.10.2012) entire document	10		
Y		11-14, 19, 22		
Y	US 2003/0205208 A1 (BAR-SHALOM) 06 November 2003 (06.11.2003) entire document	1-9, 11-22		
Y	US 2006/0125644 A1 (SHARP) 15 June 2006 (15.06.2006) entire document	1-9, 11-22		
A	US 7,966,971 B2 (ZIMMERMAN) 28 June 2011 (28.06.2011) entire document	1-22		
A	US 7,335,168 B2 (RUGG) 26 February 2008 (26.02.2008) entire document	1-22		
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