corresponds to the first identification number, and optionally also includes a secondary bar-coding reference, for traceability to the manufacturer and manufacturing lot number of, for example, the assembly and/or the pigment.

[0086] In some embodiments, the identification system further comprises a data management system for storing and cross-referencing the first, second and third identification numbers.

[0086A] According to yet a further aspect of the present disclosure, an animal marking system is provided, the animal marking system comprising:

a microelectronic animal identification device,

a pigment tattooing identification device,

a media transfer assembly,

a restraining device,

a measuring device,

a chip reader,

a tissue sampling device, and

a data management system for storing and cross-referencing identification numbers.

[0087] These and other aspects and features of the disclosure will be better understood upon reading the following detailed description in conjunction with the accompanying drawings.

BRIEF DESCRIPTION OF THE DRAWINGS

[0088] Figure 1 depicts a microelectronic animal identification device (stand-alone) of the present disclosure.

[0089] Figure 2 depicts a microelectronic animal identification device (with restraining device) of the present disclosure.

[0090] Figure 3 depicts a microelectronic animal identification device (with restraining device) of the present disclosure.

[0091] Figure 4 depicts a microelectronic animal identification device (integrated with marking system) of the present disclosure.

[0092] Figure 5 depicts a media transfer assembly according to the present disclosure.

[0093] Figure 6 depicts examples of optional axes about which the marking device and/or robotic arm can be configured to move.

[0094] Figure 7A depicts an exemplary restraining device according to the present disclosure, particularly showing the restraining device having a first part (broken line) that secures the main body of the animal and a second part (solid line) that secures the animal body part to be marked; Figure 7B depicts an exemplary restraining device according to the present disclosure, particularly showing the positioning of the animal by pushing the main body of the animal in the direction of arrow; Figure 7C depicts an exemplary restraining device according to the present

disclosure, particularly showing the positioning of the animal by pulling the animal body part to be marked in the direction of arrow; Figure 7D depicts an exemplary restraining device according to the present disclosure, particularly showing the securing of the animal body part by the restraining device.

[0095] Figure 8 depicts an exemplary restraining device according to the present disclosure.

[0096] Figure 9 depicts an exemplary body part plate assembly according to the present disclosure.

[0097] Figure 10 depicts an exemplary body part plate according to the present disclosure.

[0098] Figure 11 depicts an exemplary protective compliant boot according to the present disclosure.