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**Jaffe et al.**

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(54) **INDIGENOUS AUTHENTICATION FOR  
SENSOR-RECORDERS AND OTHER  
INFORMATION CAPTURE DEVICES**

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(57) **ABSTRACT**

A method and system of authentication for sensor-recorders  
and other information capture devices is disclosed. In accordance  
with aspects of the current invention, a digital sample of the  
environment is obtained. From this sample and at least one  
parameter representative of at least one condition under  
which the sample was generated, a digital signature is  
created. This signature is stored in memory with the sample  
to be checked at a later time for authenticity. The file is  
checked for authenticity by generating a second signature  
from the file and comparing that signature to the original  
signature. If the two signatures are identical, the sample is  
considered authentic and if the two signatures are different,  
the sample cannot be authenticated.

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(51) **Int. Cl.**<sup>7</sup> ..... **H04L 9/00**

(52) **U.S. Cl.** ..... **713/176; 380/200; 380/258**

(58) **Field of Search** ..... 713/176, 168,  
713/161, 200; 380/258, 229, 200, 54, 46;  
348/207.99; 382/276, 312-313

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**6 Claims, 21 Drawing Sheets**

