



US 20060129523A1

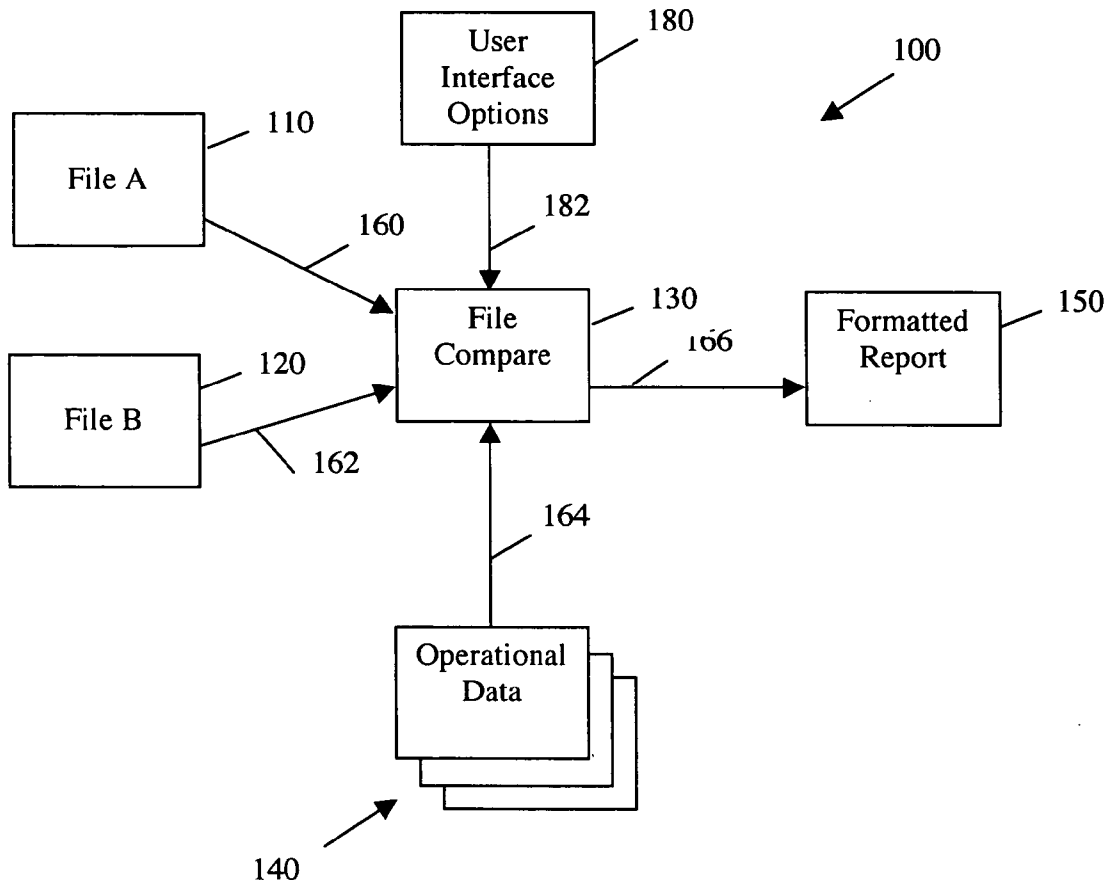
(19) **United States**(12) **Patent Application Publication**  
**Roman et al.**(10) **Pub. No.: US 2006/0129523 A1**(43) **Pub. Date: Jun. 15, 2006**(54) **DETECTION OF OBSCURED COPYING  
USING KNOWN TRANSLATIONS FILES AND  
OTHER OPERATIONAL DATA****Publication Classification**(51) **Int. Cl.**  
**G06F 17/30** (2006.01)(52) **U.S. Cl.** ..... **707/1**(76) Inventors: **Kendyl Allen Roman**, Sunnyvale, CA  
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(US)(57) **ABSTRACT**

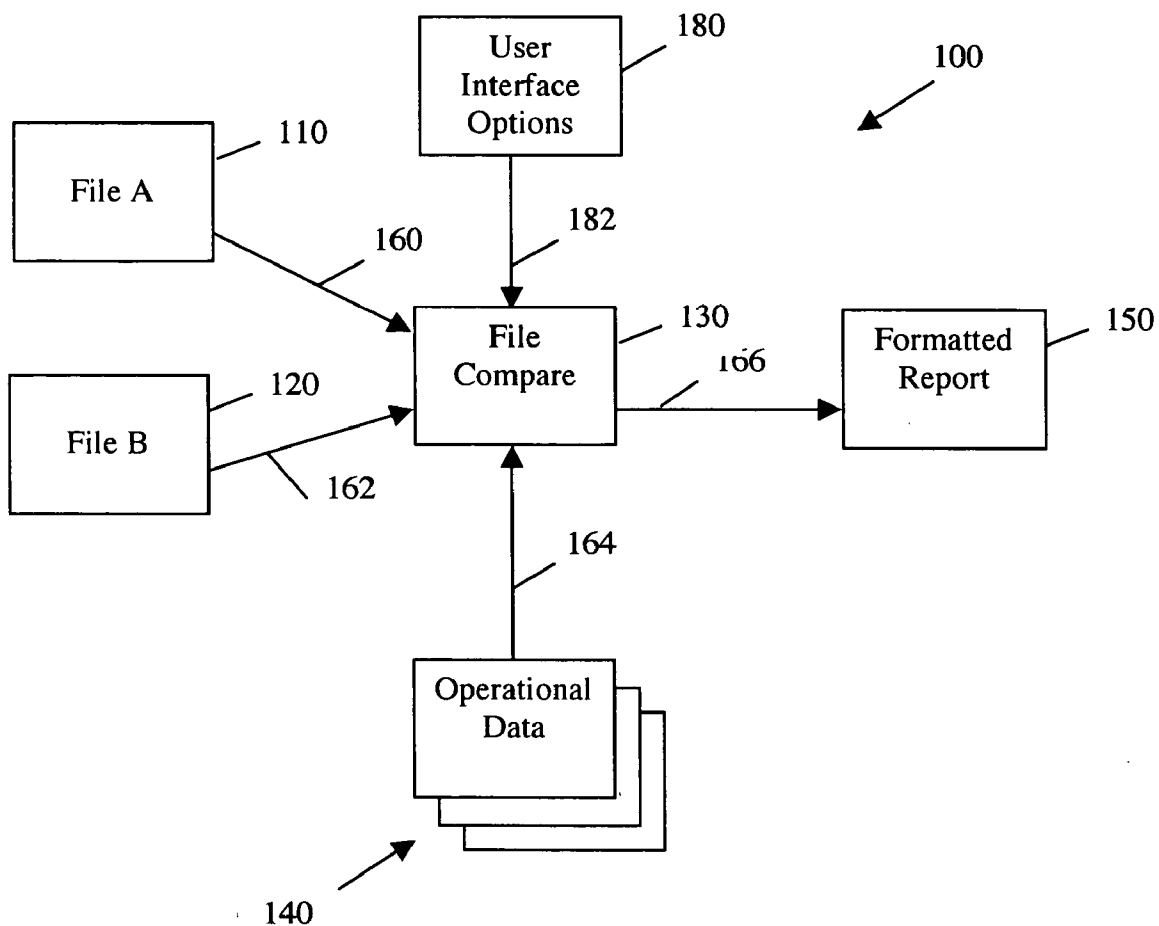
Systems and methods that automatically compare sets of files to determine what has been copied even when sophisticated techniques for hiding or obscuring the copying have been employed. The file compare system comprises a file compare program that uses various operational data and user interface options to detect illicit copying, highlight and align matching lines, and to produced a formatted report. A known translations file is used to match translated tokens. Other operation data files specify rules that the file program then used to improve its results. The generated report contains statistics and full disclosures of the known translations used and the other methods used in creating the exhibits. The system includes a bulk compare program that automatically detects likely file pairings and candidates for validation as known translations, which can be used on iterative runs. The user is given full control in the final output and the system automatically reforms the reports and recalculations the statistics for consistent and accurate final presentation.

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(21) Appl. No.: **11/299,529**(22) Filed: **Dec. 12, 2005****Related U.S. Application Data**

(60) Provisional application No. 60/635,908, filed on Dec. 10, 2004. Provisional application No. 60/635,562, filed on Dec. 13, 2004.





**Fig 1**

```
#include <stdio.h>

// The quick brown fox jumped over the lazy dog. How many tries did it take?
void tries(int initialFoxJumpHeight, int dogHeight, int jumpIncrement)
{
    int jumpHeight = initialFoxJumpHeight;
    int numTries = 0;

    while (jumpHeight < dogHeight)
    {
        jumpHeight += jumpIncrement;
        numTries++;
    }

    printf("Number of tries: %d\n", numTries);
}
```

File: jump.c

**Fig 2A**

```
#include <stdio.h>


// A fast auburn wolf leaped above a passive canine. How many attempts did it
take?
void attempts(int startWolfLeapHeight, int canineHeight, int leapIncrement)
{
    int leapHeight = startWolfLeapHeight;
    int numberOfAttempts = 0;
    while (leapHeight < canineHeight)
    {
        leapHeight += leapIncrement;
        numberOfAttempts++;
    }
    printf("Number of attempts: %d\n", numberOfAttempts);
}
```


File: leap.c

**Fig 2B**

2300

Known Translations		
Original Words	Translation Equivalents	
The — 2310a	A — 2310b	2310
quick — 2312a	fast — 2312b	2312
brown	auburn	2314
fox	wolf	2316
jump	leap	2318
jumped	leaped	2320
over	above	2322
the	a	2324
lazy	passive	2326
dog	canine	2328
tries	attempts	2330
initialFoxJumpHeight	startWolfLeapHeight	2332
jumpHeight	leapHeight	2334
dogHeight	canineHeight	2336
jumpIncrement	leapIncrement	2338
numTries	numberOfAttempts	2340

  
 2300a

  
 2300b

**Fig 2C**

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