

ABSTRACT

TWO-STAGE LOCAL AND GLOBAL FINGERPRINT MATCHING TECHNIQUE FOR
AUTOMATED FINGERPRINT VERIFICATION/IDENTIFICATION

- A method for determining a degree of match between a search
5 fingerprint and a reference fingerprint comprises the
following steps:
- a) Extracting at least one first search feature from a first
region of said search fingerprint thereby forming a local
search feature vector,
 - 10 b) Extracting at least one second search feature from a second
region of said search fingerprint thereby forming a global
search feature vector, whereby said second region comprises
said first region,
 - c) Determining a first similarity degree by comparing said
15 local search feature vector with a local reference feature
vector,
 - d) Determining a second similarity degree by comparing said
global search feature vector with a global reference feature
vector of said reference fingerprint and using said first
20 similarity degree,
 - e) Determining said degree of match from said second similarity
degree.

Figure 2

