

A STRIPE PATTERN MATCHING SYSTEM

ABSTRACT

To provide a stripe pattern matching system enabling to verify minutia correspondence between a searching stripe pattern and a filed stripe pattern independent of position or direction of the searching stripe pattern, correspondence value between them is evaluated by comparing their distances, directions or relations to their each neighboring minutiae by a pairing examination means (16). The most appropriate rotation angle and the most appropriate shifting coordinates for adjusting the searching stripe pattern to the filed stripe pattern is obtained by selecting a most appropriate axial candidate giving the most concentrated coordinate deviations referring to deviation distributions of correspondence values accumulated on a deviation plane memory (18) by applying each axial candidate as the coordinate adjustment reference. Therefore, the most appropriate coordinate adjustment can be performed even when either or both of absolute direction and position cannot be specified, in the invention.

Fig. 1

This Sheet Has Been Replaced

