Title (en)

Apparatus for inspecting and manufacturing wire harness

Title (de)

Vorrichtung zur Inspektion und Herstellung von Kabelbäumen

Title (fr)

Dispositif pour l'inspection et pour la fabrication de faisceau de câbles

Publication

EP 1043813 B1 20030813 (EN)

Application

EP 00105088 A 20000310

Priority

JP 9871699 A 19990406

Abstract (en)

[origin: EP1043813A1] An image obtained by picking a pressed portion up is subjected to a binary-coding process so that the terminal t in a metal and luster portion is expressed with "white" pixels and the other non-luster portion, such as the sheath of the electric wire a and the connector C, is expressed with "black" pixels. A window w1 is set which is in contact with the leading end position X realized when the electric wire a of the binary image is normally pressed. Another window w2 distant at a deep portion of a cavity s is set. When pressing is normally performed, the inside portion in the first window w1 completely correspond to the sheath of the electric wire a. Therefore, pixels a are completely "black" pixels. Since the electric wire a is not introduced into the second window w2, pixels are completely "black" pixels. A product deviated from the foregoing state is determined as a faulty product. Thus, the appearance inspection about the state of connection of the electric wire a can automatically be performed in a non-contact manner. As a result, reliable and efficient inspection can be performed. <IMAGE>

IPC 1-7

H01R 43/052

IPC 8 full level

H05K 13/08 (2006.01); **H01R 43/048** (2006.01); **H01R 43/052** (2006.01)

CPC (source: EP)

H01R 43/048 (2013.01); **H01R 43/052** (2013.01); H01R 2201/20 (2013.01)

Cited by

DE102018113989B4; BE1018064A3; CN113948933A; EP1775804A3; DE102018113989A1; US2024005471A1; US11995812B2; EP1775804A2; US7975372B2; WO2009117789A3; WO2014023879A1

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