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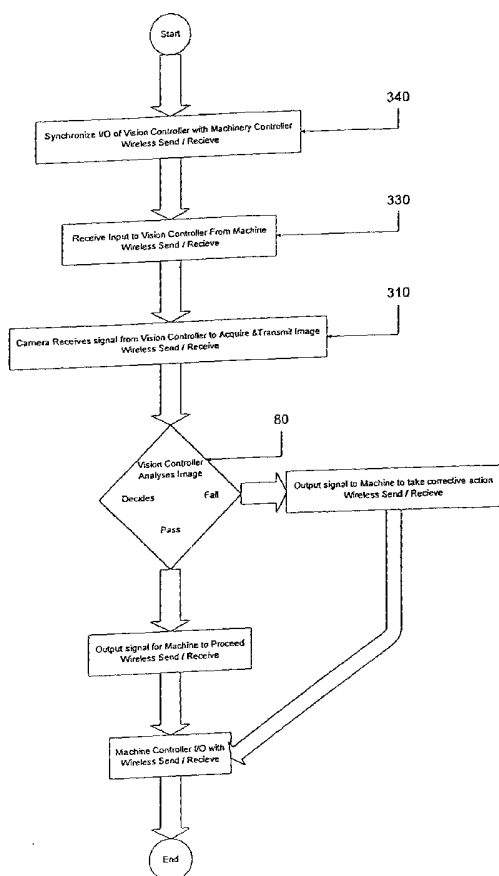
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[Continued on next page]

(54) Title: WIRELESS IMAGE PROCESSING METHOD AND DEVICE THEREFOR



(57) Abstract: A wireless image processing method and device for utilization in combination with a machine vision system, preferably a part-forming machine, wherein a wireless communicator delivers images to a host computer that can analyze the data and determine functionality to the manufacturing process, wherein the host computer can incorporate wireless components, wherein wireless signals can be sent and/or received to input/output modules to control the processes, and wherein the input/output modules can affect said control wirelessly, thereby minimizing and/or eliminating physical cabling and wiring constraints to enable smaller implementations, increased analysis capabilities, and improved price/performance ratios. Alternatively, an image analyzing means may be integrated with an image capturing means, wherein a control signal can be wirelessly communicated to affect the manufacturing process.

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/17271

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : B29C 45/76
 US CL : 425/135, 137

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
 U.S. : 425/135, 137

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
 DERWENT, JPO, EPO

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 19909307 A1 (KRAUSE) 17 July 1998 (17.07.1998), see Figure 1.	1-28
Y	EP 1128244 A2 (MESCHIA) 29 August 2001 (29.08.2001), column 3, lines 6-39.	1-28
X	DE 20204359 U1 (ENGEL MASCHBAU GMBH) 06 June 2002 (06.06.2002),	27, 28
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Y		1-26
X	US 5,454,022 A (LEE et al) 26 September 1995 (26.09.1995), column 7, lines 32-67.	27, 28
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Y		1-26
X	US 6,369,873 B1 (LEVY et al) 09 April 2002 (09.04.2002), figures 1-5.	27, 28
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Y		1-26
Y	US 6,695,994 B2 (BULGRIN et al) 24 February 2004 (24.02.2004), figure 2.	1-28

Further documents are listed in the continuation of Box C. See patent family annex.

* Special categories of cited documents:	"T"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X"	document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
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"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&"	document member of the same patent family
"O" document referring to an oral disclosure, use, exhibition or other means		
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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/17271

Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:

3. Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
 2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
 3. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:

 4. No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
- Remark on Protest** The additional search fees were accompanied by the applicant's protest.
 No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORTInternational application No.
PCT/US04/17271**C. (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2004/0093114 A1 (MAGARIO et al) 13 May 2004 (13.05.2004), figures 1-4.	1-28
A	US 2004/0128020 A1 (FISCHBACH) 01 July 2004 (01.07.2004), figure 1.	1-28