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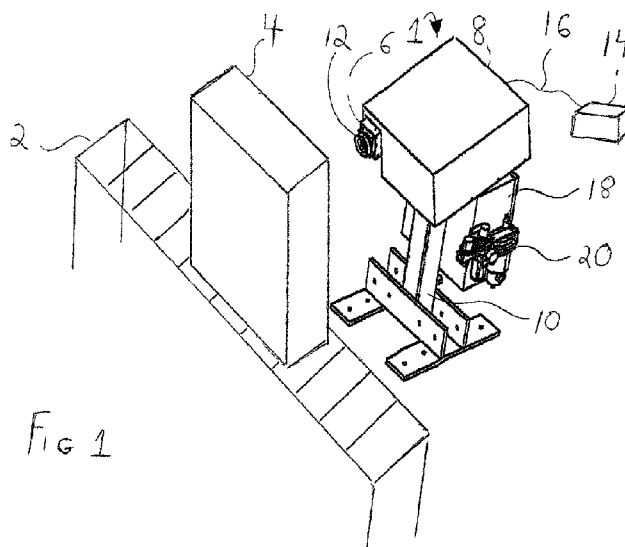
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[Continued on next page]

(54) Title: LASER MARKING SYSTEM



(57) Abstract: A part 4 is moved along the conveyor 2 to a position in front of the laser marking system and device 1 of the present invention. The part 4 is stopped in front of a safety seal assembly 6 which includes several components and the safety seal assembly 6 is only one of the components under the cover 8 of the laser marking system and device 1. A stand 10 may be utilized to hold these and other components. A vacuum assembly 18 operates to pull a vacuum in the sealing head assembly 12 which operates to create the vacuum that affixes sealing head assembly 12 against the part 4 being marked. The laser marking system includes one or more vacuum sensors to measure the vacuum at or about the sealing head assembly 12 to ensure that an adequate vacuum has been obtained. A filter assembly 20 for is used for removing fluid, debris and other materials from any air and/or vacuum lines.

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RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA,
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A. CLASSIFICATION OF SUBJECT MATTER																				
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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. : 219/121 .63-121 .72, 121 .86																				
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) Please See Continuation Sheet																				
C. DOCUMENTS CONSIDERED TO BE RELEVANT																				
Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.																		
X	US 3,657,085 A (HOFFMEISTER et al) 18 April 1972 (18.04. 1972), see Abstract, Figure 1 and description thereof.	14, 15																		
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Y		1-3, 8-16																		
Y	US 4,370,541 A (DE SIVRY et al) 25 January 1983 (25.01. 1983), see Front Page and Claim 1.	1-3, 8-16																		
Y	US 4,514,698 A (BLUMENTHAL et al) 30 April 1985 (30.04. 1985), column 4, lines 41-45.	2, 3																		
Y	US 6,384,372 A (SRITULANONT et al) 07 May 2002 (07.05.2002), see Claim 19.	1-3, 8-16																		
Y	US 5,950,904 A (CAMY et al) 14 September 1999 (14.09. 1999), See Front Page and description of the illustrated Drawing.	1-3, 8-16																		
Y	US 5,359,176 A (BALLIET et al) 25 October 1994 (25. 10. 1994), see Front Page.	1-3, 8-16																		
<input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C. <input type="checkbox"/> See patent family annex.																				
<table border="0"> <tr> <td>* Special categories of cited documents</td> <td>"T"</td> <td>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</td> </tr> <tr> <td>"A" document defining the general state of the art which is not considered to be of particular relevance</td> <td>"X"</td> <td>document of particular relevance, the claimed invention cannot be considered novel or cannot be considered to involve an Inventivestep when the document is taken alone</td> </tr> <tr> <td>"E" earlier application or patent published on or after the international filing date</td> <td>"Y"</td> <td>document of particular relevance, the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art</td> </tr> <tr> <td>"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)</td> <td>"&"</td> <td>document member of the same patent family</td> </tr> <tr> <td>"O" document referring to an oral disclosure, use, exhibition or other means</td> <td></td> <td></td> </tr> <tr> <td>"P" document published prior to the international filing date but later than the priority date claimed</td> <td></td> <td></td> </tr> </table>			* 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 Inventivestep when the document is taken alone	"E" earlier application or patent published on or after the international filing date	"Y"	document of particular relevance, the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art	"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			"P" document published prior to the international filing date but later than the priority date claimed		
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"P" document published prior to the international filing date but later than the priority date claimed																				
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Name and mailing address of the ISA/US Mail Stop PCT, Attn ISA/US Commissioner for Patents P.O Box 1450 Alexandria, Virginia 223 13-1450 Facsimile No. (571) 273-3201		Authorized officer Samuel M. Heinrich <i>Samuel Heinrich</i> Telephone No. 703 308 065 1 <i>Sten</i>																		

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US07/62496

C. (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 6,147,320 A (BERNECKER et al) 14 November 2000 (14.11.2000), see column 5, line 65 to column 6, line 9. .	1-3, 8-16
Y	US 6,156,676 A (SATO et al) 05 December 2000 (05.12.2000), see Front Page.	1-3, 8-16
Y	US 6,399,916 B1 (GORTLER et al) 04 June 2002 (04.06.2002), see Front Page.	1-3, 8-16
Y	US 20050205778 A1 (KITAI et al) 22 September 2005 (22.09.2005), see [01 16] for vacuum sensing and control.	1-3, 8-16