



## INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

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<b>(21) International Application Number:</b> PCT/US91/02158 <b>(22) International Filing Date:</b> 29 March 1991 (29.03.91) <b>(30) Priority data:</b> 505,206 5 April 1990 (05.04.90) US <b>(71) Applicant:</b> RAYCHEM CORPORATION [US/US]; 300 Constitution Drive, M.S. 120/6600, Menlo Park, CA 94025 (US). <b>(72) Inventors:</b> JONES, Philip, J. ; 1365 Cloud Avenue, Menlo Park, CA 94025 (US). MACKNICK, Brian, A. ; 27608 Vogue Court, Los Altos Hills, CA 94022 (US). WHITE, Larry, J. ; 5412 Port Sail Wood Drive, Newark, CA 94560 (US).		<b>(74) Agents:</b> CHAO, Yuan et al.; Raychem Corporation, 300 Constitution Drive, M.S. 120/6600, Menlo Park, CA 94025 (US). <b>(81) Designated States:</b> AT (European patent), BE (European patent), CA, CH (European patent), DE (European patent), DK (European patent), ES (European patent), FR (European patent), GB (European patent), GR (European patent), IT (European patent), JP, LU (European patent), NL (European patent), SE (European patent). <b>Published</b> <i>With international search report.  Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i> <b>(88) Date of publication of the international search report:</b> 14 November 1991 (14.11.91)
<b>(54) Title:</b> DISPLAYS HAVING IMPROVED CONTRAST  <b>(57) Abstract</b> <p>A display presenting an image having enhanced contrast has a screen which switches between a bright, image-presenting state and a dark, image-less state, to minimize glare from ambient light reflections. Alternatively, a shutter which switches between a substantially transparent state and a dark, light absorbing state is placed over a conventional screen.</p>		

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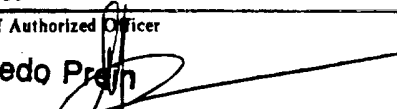
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INTERNATIONAL SEARCH REPORT

PCT/US 91/02158

International Application No

<b>I. CLASSIFICATION OF SUBJECT MATTER</b> (If several classification symbols apply, indicate all) <sup>6</sup>		
According to International Patent Classification (IPC) or to both National Classification and IPC Int.Cl. 5            H04N9/31 ;    G09G3/00		
<b>II. FIELDS SEARCHED</b>		
Minimum Documentation Searched <sup>7</sup>		
Classification System	Classification Symbols	
Int.Cl. 5	H04N ;            G09G ;            H01J ;            G02F	
Documentation Searched other than Minimum Documentation to the Extent that such Documents are Included in the Fields Searched <sup>8</sup>		
<b>III. DOCUMENTS CONSIDERED TO BE RELEVANT<sup>9</sup></b>		
Category <sup>o</sup>	Citation of Document, <sup>11</sup> with indication, where appropriate, of the relevant passages <sup>12</sup>	Relevant to Claim No. <sup>13</sup>
X	US,A,4 231 068 (G.H. HUNT) October 28, 1980 see column 1, line 1 - column 2, line 42; figures 1,2 see column 2, line 66 - column 3, line 27	22-24
A	---	9
A	US,A,4 616 903 (J.L. FERGUSON) October 14, 1986 cited in the application  see column 1, line 61 - column 2, line 4  see column 4, line 13 - line 22 see column 5, line 15 - line 31 see column 5, line 65 - column 6, line 20  ---	3,5,7-8, 11,13, 15-16,19 21,23, 28-30, 32-34, 36-38 40-42
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<p><sup>o</sup> Special categories of cited documents :<sup>10</sup></p> <p>"A" document defining the general state of the art which is not considered to be of particular relevance</p> <p>"E" earlier document but published on or after the international filing date</p> <p>"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)</p> <p>"O" document referring to an oral disclosure, use, exhibition or other means</p> <p>"P" document published prior to the international filing date but later than the priority date claimed</p> <p>"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</p> <p>"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step</p> <p>"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.</p> <p>"&amp;" document member of the same patent family</p>		
<b>IV. CERTIFICATION</b>		
Date of the Actual Completion of the International Search	Date of Mailing of this International Search Report	
27 AUGUST 1991	03.10.91	
International Searching Authority	Signature of Authorized Officer	
EUROPEAN PATENT OFFICE	Alfredo P... 	

III. DOCUMENTS CONSIDERED TO BE RELEVANT (CONTINUED FROM THE SECOND SHEET)		
Category °	Citation of Document, with indication, where appropriate, of the relevant passages	Relevant to Claim No.
A	GB,A,1 604 375 (BRITISH AEROSPACE) December 9, 1981 see page 1, line 53 - line 83; figure 1 see page 2, line 6 - line 23	35
P,X	EP,A,0 363 206 (THORN EMI PLC) April 11, 1990  see column 1, line 53 - column 13, line 24; figures 1,2,4-6,9-11	1-4,6, 9-12,14, 16-17 27-28, 35-36, 39-40 5,7-8, 13,15, 22-24,26 29-34, 41-42
P,A	---	---

**ANNEX TO THE INTERNATIONAL SEARCH REPORT  
ON INTERNATIONAL PATENT APPLICATION NO.**

US 9102158  
SA 46562

This annex lists the patent family members relating to the patent documents cited in the above-mentioned international search report.  
The members are as contained in the European Patent Office EDP file on  
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23/09/91

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US-A-4231068	28-10-80	CA-A- 1105544	21-07-81
		EP-A, B 0000422	24-01-79
		JP-C- 1357623	13-01-87
		JP-A- 54033698	12-03-79
		JP-B- 61026669	21-06-86
US-A-4616903	14-10-86	US-A- 4435047	06-03-84
		AU-B- 567868	10-12-87
		AU-A- 1201583	06-09-84
		CA-A- 1186502	07-05-85
		EP-A, B 0088126	14-09-83
		EP-A- 0268877	01-06-88
		GB-A, B 2128626	02-05-84
		JP-A- 58501631	29-09-83
		SU-A- 1620056	07-01-91
		WO-A- 8301016	31-03-83
		US-A- 4884873	05-12-89
		US-A- 4606611	19-08-86
		US-A- 4707080	17-11-87
		US-A- 4605284	12-08-86
		US-A- 4579423	01-04-86
US-A- 4810063	07-03-89		
US-A- 4844596	04-07-89		
GB-A-1604375	09-12-81	None	
EP-A-0363206	11-04-90	CA-A- 2000318	06-04-90
		CN-A- 1045300	12-09-90
		JP-A- 2162389	21-06-90
		US-A- 4995719	26-02-91

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For more details about this annex : see Official Journal of the European Patent Office, No. 12/82