

PATENT SCHEDULE

1. INTRODUCTION

Contra Vision Ltd is an intellectual property company which licenses patents, trademarks and secret know-how related to one-way vision and other vision control panels. Its Vision Management System™ is based on two dominant patent families for the two basic types of vision control panel:

(A) US RE37,186, GB 2 165 292 and family member patents in 21 countries. These expired in July 2005 **EXCEPT FOR:**

APPLICATION NO.	TITLE	DATE FILED	FILE NO.	PUBLICATION NO.	APPL. PUBLISHED	PATENT NO	PATENT GRANTED
Spain 0545589	Panel	26.07.85	545589		16.05.88	0545589	10.03.88
Malaysia 8518654	Panel	25.05.88	PI 8800557			MY-103902-A	30.10.93

This patent covers Contra Vision® panels with an opaque "silhouette pattern" on which is superimposed a design, the design being visible from one side of the panel but not from the other side of the panel. Although now expired in most countries, nearly all the vision control products that were covered by these patents continue to be covered by our improvement patents in the following schedule.

(B) US 6,212,805, EP 0 880 439 and family member patents in 22 countries.

Contra Vision® BACKLITE™ panels with a translucent "base pattern" on which is superimposed a design visible from one side, a reverse (mirror) image of which is visible from the other side.

The patent portfolio includes many improvement patents for both product types, covering the methods of production of the preferred vision control panels currently on the market, including:

Contra Vision® XR™ exact registration printed products (US4,925,705, EP 0234121 and family member patents in 18 countries).

Contra Vision® Performance™ and sub-licensed Perforated Base Materials with a "replacement liner" (US 5,858,155 and EP 0 800 462) and family member patents in 20 countries).

Contra Vision® ORS™ Overlap Registration System™ methods of managing the inevitable lack of registration in both traditional and digital printing methods in order to achieve the desired colour rendering (US 6,210,776 , EP 0 858 399 or US 6,506,475, EP PCT/IB02/01549 and US 6,507,413, EP 0 904 206).

This Patent Schedule also includes several published patent applications for new technologies, for example for glass printed with ceramic ink with exact registration. Contra VisionLtd also has several unpublished patent applications in the field of vision control panels and related products and methods.

GRANTED PATENTS

APPLICATION NO.	TITLE	DATE FILED	FILE NO.	PUBLICATION NO.	APPL. PUBLISHED	PATENT NO.	PATENT GRANTED
2. CONTRA VISION® BACKLITE™ (inventor G. Roland Hill)							
GB9600247.2	Panel with Light Permeable Images	05.01.96					
PCT/GB97/00020	Panel with Light Permeable Images	06.01.97		WO97/25213	17.07.97		
Australia 13864/97	Panel with Light Permeable Images					723729	21.12.00
Australia 72075/00 (Divisional) Acceptance no. 765984 (26.08.03)		07.12.00				765984	22.01.04
Canada		06.01.97				2242640	
EPC 97900273.0	Panel with Light Permeable Images	06.01.97				0880439	12.06.02
Austria	"					0880439	
Belgium	"					0880439	
Denmark	"					0800439	
Germany	"					697 13 283.8-08	
Eire	"					0880439	
Finland	"					0880439	
France	"					0880439	
Germany	"					0880439	
Greece	"					0880439	
Italy	"					0880439	
Luxembourg	"					0880439	
Monaco	"					0880439	
Netherlands	"					0880439	
Portugal	"					0880439	
Spain	"					ES 2178748 T3	
Sweden	"					0880439	
Switzerland/ Liechtenstein	"					0880439	
UK	"					0880439	
Japan 524963/97		06.01.97				3455854	01.08.03
USA09/101,238		06.07.98				6,212,805	10.04.01

Contra Vision® BACKLITE™ is a trade mark of Contra Vision Ltd

*This is the dominant patent for one-way vision, see-through graphics, with an opaque translucent "base pattern".

GRANTED PATENTS

APPLICATION NO.	TITLE	DATE FILED	FILE NO.	PUBLICATION NO.	APPL. PUBLISHED	PATENT NO.	PATENT GRANTED
3. EXAPRINT* (inventor G. Roland Hill)							
GB 8531804	Improvements in or relating to printing	24.12.85					
GB 8630654		22.12.86	8531804		14.10.87	2188873	19.09.90
Australia 66930/86	"	22.12.86	66930/86		25.06.87	605471	09.01.91
Canada 526212	"	23.12.86	526,212		05.02.91	1279794	05.02.91
EPC 86310004.6	"	22.12.86	86310004.6		02.09.87	0234121	11.11.92
Austria	Registered on 11.11.92					E82198	
Belgium	Registered on 11.11.92					0234121	
France	Registered on 11.11.92					0234121	
Germany	Registered on 11.11.92					0234121	
Italy	Registered on 11.11.92					0234121	
Netherlands	Registered on 11.11.92					0234121	
Spain	Registered on 11.11.92					0234121	
Sweden	Registered on 11.11.92					0234121	
Switzerland (& Liechtenstein)	Registered on 11.11.92					0234121	
Japan 316106/86	Improvements in or relating to printing	24.12.86	316106/86		30.09.87	1972872	27.09.95
Japan 323152/94	"	24.01.95				2668110	04.07.97
South Africa 86/9669	"	23.12.86	86/9669			86/9669	26.08.87
Taiwan 75106311	"	30.12.86	75106311		01.09.87	27780	01.09.87
US 945,849	"	23.12.86	945,849			B1 4,925,705	15.05.90
					Reexamination Certificate issued		14.02.95

*Exact registration printing, including 15 security printing applications

4. REPLACEMENT LINER PERFORATED MATERIALS (inventors G. Roland Hill and W. Voss)

GB 9426401.7	Perforated Adhesive Assembly	30.12.94					
PCT/GB96/00002	"	02.01.96		WO96/20840	11.07.96		
Australia 43120/96	"	02.01.96			24.07.96	695758	20.08.98
Canada 2208716	"					2,208,716	23.05.00
EPC96900029.8	Method of Forming a Perforated Adhesive Assembly					0800462	08.11.00
Austria	"					0800462	
Belgium	"					0800462	
Denmark	"					0800462	
France	"					0800462	
Germany	"					0800462	
Greece	"					0800462	
Eire	"					0800462	
Italy	"					0800462	
Luxembourg	"					0800462	
Monaco	"					0800462	
Netherlands	"					0800462	
Portugal	"					0800462	
Spain	"					0800462	
Sweden	"					0800462	
Switzerland	"					0800462	
United Kingdom	"					0800462	
Japan 520808/96	Perforated Adhesive Assembly	02.01.96				3111239	22.09.00
USA 08/849,054	Method of Forming a Perforated Adhesive Assembly					5,858,155	12.01.99

GRANTED PATENTS

APPLICATION NO.	TITLE	DATE FILED	FILE NO.	PUBLICATION NO.	APPL. PUBLISHED	PATENT NO.	PATENT GRANTED
5. OVERLAP REGISTRATION SYSTEM™* “THROUGH COMBINATION” METHOD (inventor G. Roland Hill)							
GB9521797.2	Partial Printing of a Substrate	24.10.95					
PCT/GB96/02600	Partial Printing of a Substrate	24.10.96		WO97/15453	01.05.97		
Australia 73169/96	Partial Printing of a Substrate					724270	11.01.01
EPC 96935074.3	Partial Printing of a substrate					0858399	06.06.01
Austria	"					0858399	
Belgium	"					0858399	
Denmark	"					0858399	
Eire	"					0858399	
Finland	"					0858399	
France	"					0858399	
Germany	"					DE 69613233T2	
Greece	"					0858399	
Italy	"					0858399	
Netherlands	"					0858399	
Portugal	"					0858399	
Spain	"					ES 2159761T3	
Sweden	"					0858399	
Switzerland	"					0858399	
United Kingdom	"					0858399	
USA 09/051,921	Partial Printing of a substrate	24.10.96				6,210,776	03.04.01
*Covers Contra Vision ORS™ products, which with Overlap Registration System™ is a trade mark of Contra Vision Ltd							
6. “PRINT PATTERN TRIP” METHOD (inventor G. Roland Hill)							
USA 09/564,586 (Divisional from US 6,210,776)	Partial Printing of a Substrate	24.10.96			01.05.97	6,552,820 B1	22.04.03

GRANTED PATENTS

APPLICATION NO.	TITLE	DATE FILED	FILE NO.	PUBLICATION NO.	APPL. PUBLISHED	PATENT NO.	PATENT GRANTED
7. OVERLAP REGISTRATION SYSTEM™ “EDGE SEALED” METHOD (inventor G. Roland Hill)							
US 09/764,276	Partial Printing of a Substrate with Edge Sealed Printed Portions	19.01.01				6,506,475 B1	14.01.03
PCT/IB02/01549	" "	18.01.02		WO 02/070269 A2	12.09.02		
South Africa 2002/7417	" "	18.01.02				2002/7417	26.05.04
Australia 2002256841	" "	18.01.02					
EPC 02726362.3	Partial Printing of a Substrate with Edge Sealed Printed Portions						
Austria	" "						
Belgium	" "						
Denmark	" "						
Ireland	" "						
Finland	" "						
France	" "						
Germany	" "						
Greece	" "						
Italy	" "						
Netherlands	" "						
Portugal	" "						
Spain	" "						
Sweden	" "						
Switzerland	" "						
United Kingdom	" "						
USA 10/466,537		19.12.03		US2004/0091680 A1	13.05.04		

GRANTED PATENTS

APPLICATION NO.	TITLE	DATE FILED	FILE NO.	PUBLICATION NO.	APPL. PUBLISHED	PATENT NO.	PATENT GRANTED
8. PRINTING WITH DIFFERENTIAL RECEPTIVITY (inventors G. Roland Hill and M.D. Godden)							
PCT/GB97/01175	Printing with Differential Receptivity	30.04.97					
PCT/GB97/02788	Method for Forming Durable Images on Substrates	24.10.97		WO98/17480	30.04.98		
Australia 46310/97	Method for Forming Durable Images on Substrates	24.10.97			15.05.98	737320	16.08.01
Canada 2269794						2269794	
EPC 97944984.0	Method for Forming Durable Images on Substrates	24.10.97			10.08.99	0934169	17.04.02
Austria	Printing with Receptivity 2					0934169	
Belgium	" "					0934169	
Denmark	" "					0934169	
Eire	" "					0934169	
Finland	" "					0934169	
France	" "					0934169	
Germany	" "					0934169	
Greece	" "					0934169	
Italy	" "					0934169	
Luxembourg	" "					0934169	
Monaco	" "					0934169	
Netherlands	" "					0934169	
Portugal	" "					0934169	
Spain	" "					0934169	
Sweden	" "					0934169	
Switzerland/ Liechtenstein	" "					0934169	
United Kingdom	" "					0934169	
Hong Kong 100742.1	Method for forming durable images on substrates					1021890	17.04.02
Japan 519068/98	Printing with Receptivity 2	24.10.97					
USA 09/297,020	Printing with Differential Receptivity					6,267,052	31.07.01

GRANTED PATENTS

APPLICATION NO.	TITLE	DATE FILED	FILE NO.	PUBLICATION NO.	APPL. PUBLISHED	PATENT NO.	PATENT GRANTED
9. CERAMIC INK PRINTING METHODS (inventors G. Roland Hill and A.W.N. Clare)							
USA 60/118,480	Partial Imaging of a Substrate with Superimposed Layers	03.02.99				6,824,639	30.11.04
PCT/IB00/00267	Partial Imaging of a Substrate with Superimposed Layers	03.02.00		WO 00/46043	10.08.00	6,824,639	
Australia 28223/00	Partial Imaging of a Substrate with Superimposed Layers	03.02.00			18.12.03	768614	22.04.04
Canada 2361546		03.02.00					
South Africa 2001/6411		03.02.00				2001/6411	30.10.02
USA 09/890,570	" "	25.09.01			all claims 1-29 allowed		
GB0121190.3	Partial Imaging of a Substrate with Superimposed Layers	03.02.00			28.11.01	2362607	15.01.03
10. SURVEILLANCE CAMERA ASSEMBLY (inventor G. Roland Hill)							
GB 0105654.8		08.03.01					
GB 0205507.7	Public Telephone Structure with Security Camera	08.03.02		2375449A	13.11.02	2375449	07.09.05

PUBLISHED PATENT APPLICATIONS

APPLICATION NO.	TITLE	DATE FILED	FILE NO.	PUBLICATION NO.	APPL. PUBLISHED	PATENT NO.	PATENT GRANTED
11. PRINTING WITH DIFFERENTIAL ADHESION (inventors G. Roland Hill and C. Parry) (UV ink)							
Provisional Application No							
USA 60/350,018	Printing with Differential Adhesion	23.01.02					
USA 10/349,169	Printing with Differential Adhesion	23.01.03		2004/0045937	11.03.04	6,899,775	31.05.05
PCT/IB03/00555	Printing with Differential Adhesion	23.01.03					
Australia 2003214488	Printing with Differential Adhesion	23.01.03					
Canada 2,473,334	Printing with Differential Adhesion	23.01.03					
EP03710064.1	Printing with Differential Adhesion			1467870			
United Kingdom	" "	23.01.03					
France	" "	23.01.03					
Germany	" "	23.01.03					
Spain	" "	23.01.03					
South Africa 2004/5553	Printing with Differential Adhesion	23.01.03				2004/5553	28.09.05

PUBLISHED PATENT APPLICATIONS

APPLICATION NO.	TITLE	DATE FILED	FILE NO.	PUBLICATION NO.	APPL. PUBLISHED	PATENT NO.	PATENT GRANTED
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12. FRIT-LOADED CERAMIC INK PRINT PATTERN (inventors G Roland Hill and H Quinn)

GB 0222765.0	Glass Panels Partially Printed with Ceramic Ink Layers in Substantially Exact Registration	02.10.02					
PCT/GB2003/004216	Glass Panels Partially Printed with Ceramic Ink Layers in Substantially Exact Registration	29.09.03		WO 04/030935 A3	15.04.04		
10/529,367 (USA)	Glass Panels Partially Printed with Ceramic Ink Layers in Substantially Exact Registration	28.03.05					
2,500,406 (Canada)	Glass Panels Partially Printed with Ceramic Ink Layers in Substantially Exact Registration	29.09.03		WO 04/030935 A3	15.04.04		
PCT/GB2003/004216 (Japan)	Glass Panels Partially Printed with Ceramic Ink Layers in Substantially Exact Registration	01.04.05		2004-540942			
PCT/GB2003/004216 (Australia)	Glass Panels Partially Printed with Ceramic Ink Layers in Substantially Exact Registration	29.09.03		2003267659			
EP03748351.8	Glass Panels Partially Printed with Ceramic Ink Layers in Substantially Exact Registration	29.09.03					
Austria	"						
Belgium	"						
Czech Republic	"						
Finland	"						
France	"						
Germany	"						
Greece	"						
Italy	"						
Netherlands	"						
Portugal	"						
Spain	"						
Sweden	"						
Switzerland/Liechtenstein	"						
United Kingdom	"						

PUBLISHED PATENT APPLICATIONS

APPLICATION NO.	TITLE	DATE FILED	FILE NO.	PUBLICATION NO.	APPL. PUBLISHED	PATENT NO.	PATENT GRANTED
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13. ILLUMINATION DEVICE (inventor G Roland Hill)

GB 0402189.5		31.01.04					
GB 0501587.014	Illumination Assembly	26.01.05		2411512	31.08.05		

PATENTS LICENSED TO CONTRA VISION

APPLICATION NO.	TITLE	DATE FILED	FILE NO.	PUBLICATION NO.	APPL. PUBLISHED	PATENT NO	PATENT GRANTED
14. DISPLAY UNIT AND METHODS OF DISPLAYING AN IMAGE (inventors Bruno Mueller and William E. Bird)							
PCT/US96/09888	Display Unit and Methods of Displaying an Image (and any international family member)	14.06.96		WO 97/47481	18.12.97		
EPC 96921470.9	"	14.06.96		0 904 206	31.03.99	0904206	04.12.02
Germany	"	"					
France	"	"					
Great Britain	"	"					
Italy	"	"					
Netherlands	"	"					
EPC 02077207.5 (Divisional Application of 0904206B1)	"	14.06.96		1 249 354 A1	16.10.02		
Australia	"	14.06.96				730258	14.06.01
Brazil	"	14.06.96				9612637	16.09.03
Canada	"	14.06.96					
China	"	14.06.96				96180410.6	01.10.03
Japan	"	14.06.96					
Korea	"	14.06.96					
Singapore	"	14.06.96				60831	18.04.00
USA 10/291067	"	08.11.02				6,507,413	14.01.03
USA 09/202,281	"	14.06.96		20030122844A1			

PATENTS LICENSED TO CONTRA VISION

APPLICATION NO.	TITLE	DATE FILED	FILE NO.	PUBLICATION NO.	APPL. PUBLISHED	PATENT NO	PATENT GRANTED
15. METHOD FOR MAKING UNIDIRECTIONAL GRAPHIC ARTICLE (Inventors Sally J. Bull, Ernest M. Rinehart and Kenneth D. Wilson)							
USA 09/094,895	Method for Making Unidirectional Graphic Article	15.06.98				6,254,711	03.07.01
PCT/US99/00467 (and any international family member)	"	08.01.99		WO 99/65708	23.12.99		
EPC 99902128.0	"	08.01.99			25.04.01	1 093 418	28.05.03
Australia	"	08.01.99			05.01.00	747805	05.09.02
China	"	08.01.99				99807376.8	14.01.04
Japan	"	08.01.99					
Korea	"	08.01.99					

EXPIRED PATENTS

APPLICATION NO.	TITLE	DATE FILED	FILE NO.	PUBLICATION NO.	APPL. PUBLISHED	PATENT NO	PATENT GRANTED
16. CONTRA VISION®* (inventor G. Roland Hill)							
GB 8419312	Transparent Panel (1)	28.07.84					
GB 8504187	Transparent Panel (2)	19.02.85					
GB 8518654	Panel (3)	24.07.85			09.04.86	2165292 C2 Amended	25.05.88 10.04.03
GB Patent - registered in the following countries:							
Bahrain	Registered on 28.09.89					BP 979	
Cyprus	Registered on 13.01.90					1524	
Hong Kong	Registered on 12.10.89					811/89	
Singapore	Registered on 13.10.89					496/89	
Australia 45254/85	Panel	23.07.85			30.01.86	580790	22.05.89
Canada 487502	Panel	25.07.85	850725		Amendment allowed	1258171	08.08.89
EPC 85305127.4	Panel	18.07.85			05.02.86	0170472	06.12.89
Austria	Registered on 06.12.89					0048396	
Belgium	Registered on 06.12.89					0170472	
France	Registered on 06.12.89					0170472	
Germany	Registered on 06.12.89					0170472	
Italy	Registered on 06.12.89					0170472	
Netherlands	Registered on 06.12.89					0170472	
Sweden	Registered on 06.12.89					0170472	
Switzerland (& Liechtenstein)	Registered on 06.12.89					0170472	
Japan 168500/85	Panel	29.07.85	93503		12.06.86	2129815	30.05.97
Japan 40039/92	Panel	09.01.92				2617393	11.03.97
Japan 330848/95	Panel	29.07.85				3185088	11.05.01
South Africa 85.5650	Panel	26.07.85	85.5650		28.01.86	85/5650	26.03.86 28.08.96
Taiwan 74103231	Panel	24.07.85			01.05.87	27123	01.05.87
USA 760048	Unidirectional Panel	29.07.85	760,048		16.06.87	4,673,609	16.06.87
					Reexamination Certificate issued		25.07.95
					Reissue Patent	RE37,186	22.05.01

Contra Vision® is a trade mark of Contra Vision Ltd

*This was the dominant patent for one-way vision, see-through graphics, with an opaque "silhouette pattern".

EXPIRED PATENTS

APPLICATION NO.	TITLE	DATE FILED	FILE NO.	PUBLICATION NO.	APPL. PUBLISHED	PATENT NO	PATENT GRANTED
17. SAFE-SCREEN							
GB 8203387	Transparent Panel (1)	05.02.82	8203387				
GB 8303293	Transparent Panel (2)	07.02.83			26.10.83	2118096	30.4.86

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