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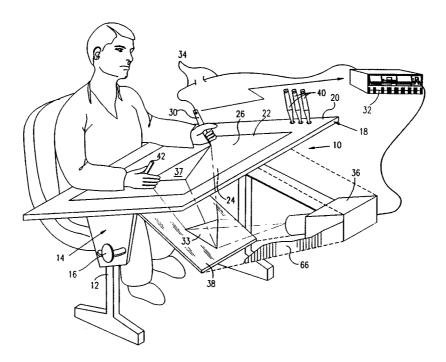
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### (54) Title: INTERACTIVE DESK



### (57) Abstract

An interactive desk system (10) comprising a horizontal desktop (14), part of which is at least partially light transmissive, the part having an underside surface, a top display surface (26), a user-positionable and operable locator providing an output indication of its location, a computer (32) receiving the output indication of the location of the locator, a display projector coupled to the computer for projecting the pattern through the underside surface of the desktop surface to be visible on the top display surface.

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## INTERNATIONAL SEARCH REPORT

International application No. PCT/IL98/00131

A. CLASSIFICATION OF SUBJECT MATTER									
IPC(6) :G09G 1/08, 5/00, 3/00; G03B 21/00,21/14									
	US CL: 345/7,8,13,14,32; 353/7,13,14,119,122; 348/51,52115 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)									
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U.S. : 345/7,8,13,14,32; 353/7,13,14,119,122; 348/51,52115									
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C. DOCUMENTS CONSIDERED TO BE RELEVANT									
Category*	Citation of document, with indication, where ap	propriate, of the relevant passages	Relevant to claim No.						
· ,									
Y	US 5,502,481 A (DENTINGER et al)	26 March 1996, summary;	1-12						
	figures 1-4; col.5-8.								
Y	US 5,239,373 A (TANG et al ) 2	4 August 1993, summary;	1-12						
	figures 2-6, 14,15,17-18; col.5,8-9.								
	**** * *** *** * * ****** * * * * * * *		1 10						
A	US 5,448,263 A (MARTIN) 05 S	September 1995; summary;	1-12						
	figures 1-4 col.3-5.								
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