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## (12) United States Patent

Perski et al.

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(45) **Date of Patent: Jul. 13, 2004** 

(54)	DUAL	<b>FUNCTION</b>	<b>INPUT</b>	DEVICE	AND
	METH	(OD			

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Morag, Tel Aviv (IL)

- (73) Assignee: N-trig Ltd., Tel-Aviv (IL)
- (\*) Notice: Subject to any disclaimer, the term of this

patent is extended or adjusted under 35

U.S.C. 154(b) by 0 days.

- (21) Appl. No.: 10/270,373
- (22) Filed: Oct. 15, 2002
- (65) Prior Publication Data

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#### Related U.S. Application Data

- (60) Provisional application No. 60/333,770, filed on Nov. 29, 2001.
- (51) Int. Cl.<sup>7</sup> ...... G09G 5/00

176/18.01–18.07, 19.01–1

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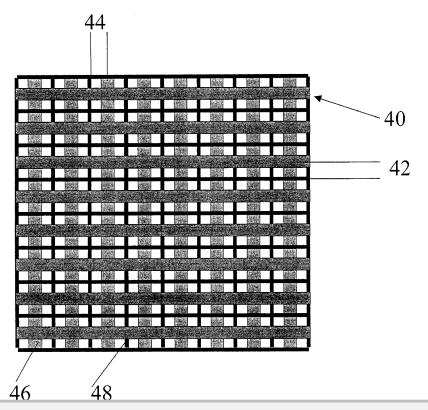
<sup>\*</sup> cited by examiner

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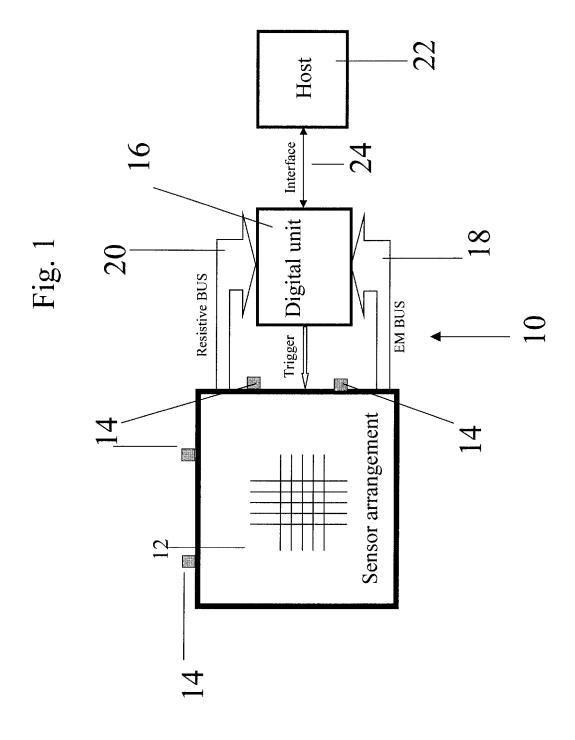
#### (57) ABSTRACT

Apparatus for user input to a digital system, comprising a first sensing system for sensing a user interaction of a first type, co-located with a second sensing system for sensing a user interaction of a second type. The first system may detect styluses and like objects using EM radiation and the second system may detect touch pressure.

#### 15 Claims, 11 Drawing Sheets









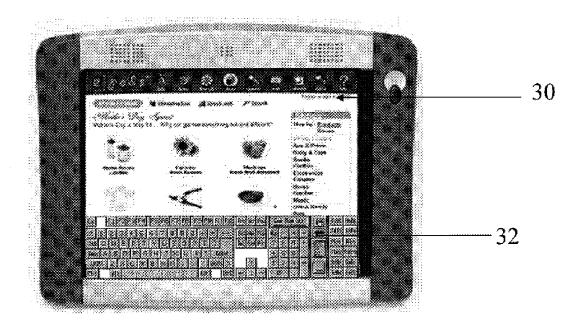
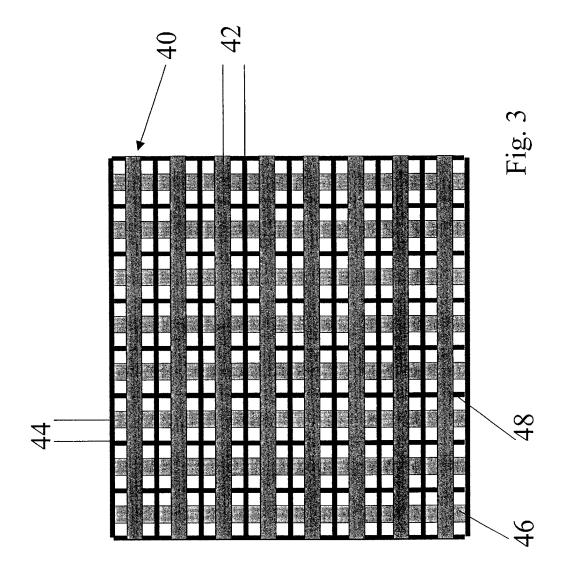
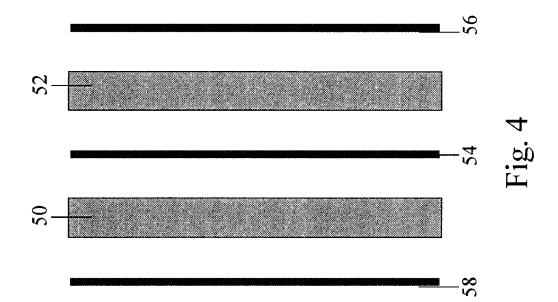


Fig. 2









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