

## (12) United States Patent

Astala et al.

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## (54) TOUCH SCREEN DRAG AND DROP INPUT TECHNIQUE

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(73) Assignee: Nokia Corporation, Espoo (FI)

(\*) Notice: Subject to any disclaimer, the term of this

patent is extended or adjusted under 35 U.S.C. 154(b) by 200 days.

(21) Appl. No.: 09/714,939

(22) Filed: Nov. 20, 2000

(51) **Int. Cl.**<sup>7</sup> ...... **G09G 5/00**; G09G 5/08

(52) **U.S. Cl.** ...... **345/173**; 345/156; 345/157; 178/18.01

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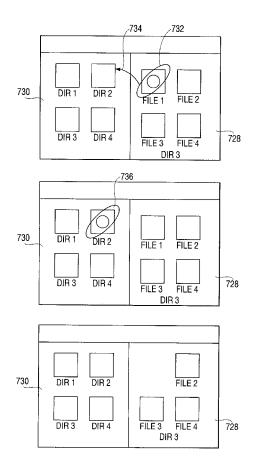
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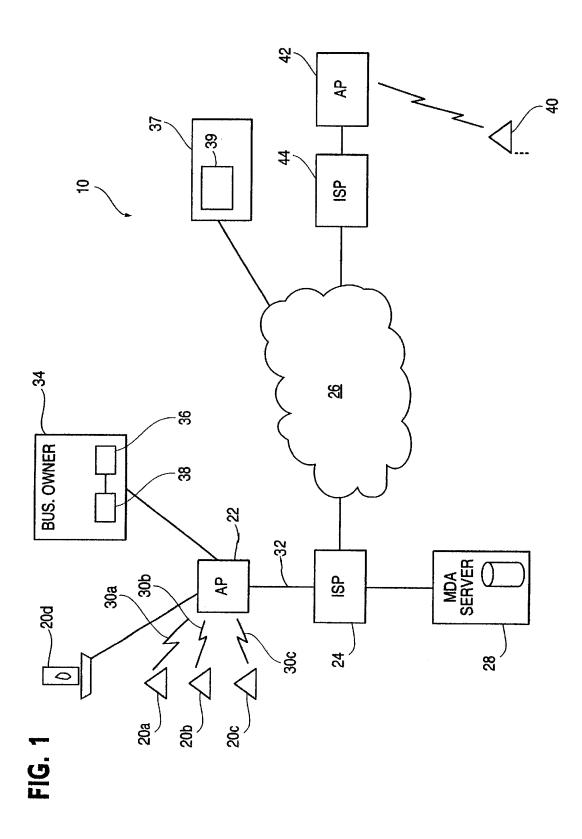
A method of and apparatus for dragging and dropping items displayed on a touch screen. In one embodiment, the item on the touch screen is touched with a pressure greater than a first predetermined pressure for a first predetermined period of time. The pressure on the item is then reduced, and the item is dragged with the reduced pressure to a second location at which the touch screen is touched with a pressure greater than a second predetermined pressure for a time duration greater than a second predetermined time period. In another embodiment, the item on the touch screen is touched with a pressure greater than a predetermined pressure for a first predetermined period of time, and then the touch screen is touched at a second location with a pressure greater than the predetermined pressure for a second predetermined period of time, less than the first predetermined period of time.

**ABSTRACT** 

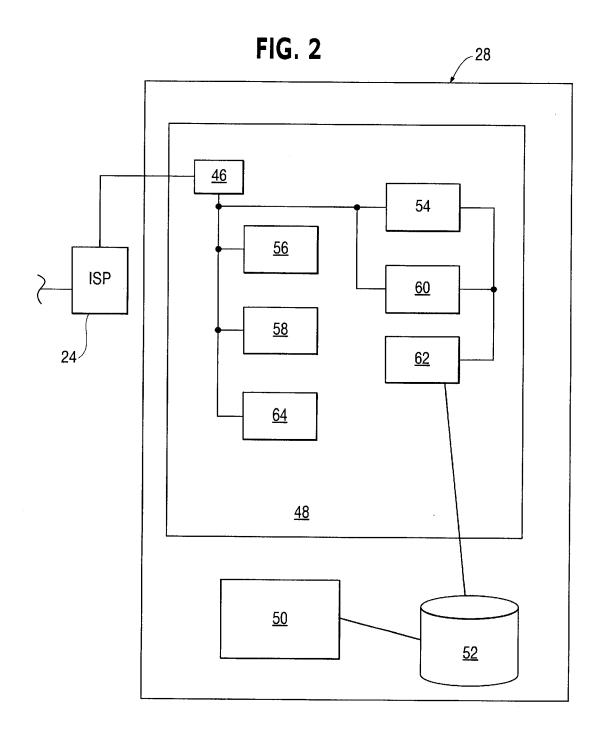
#### 24 Claims, 7 Drawing Sheets



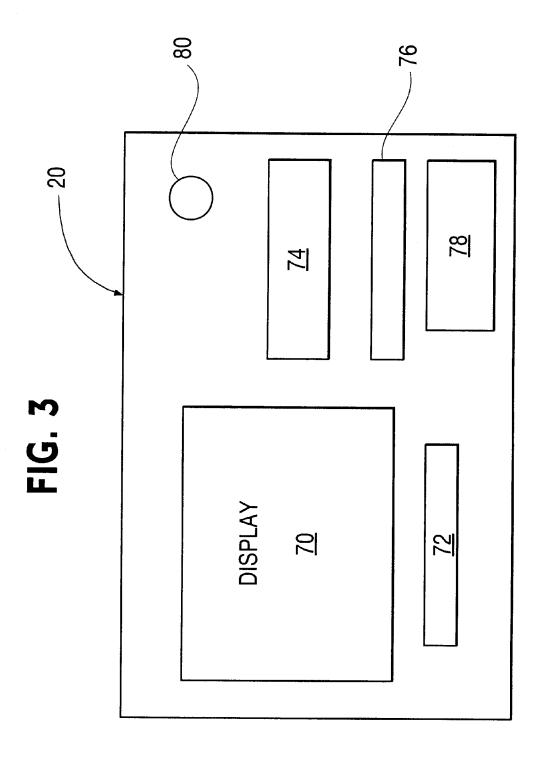




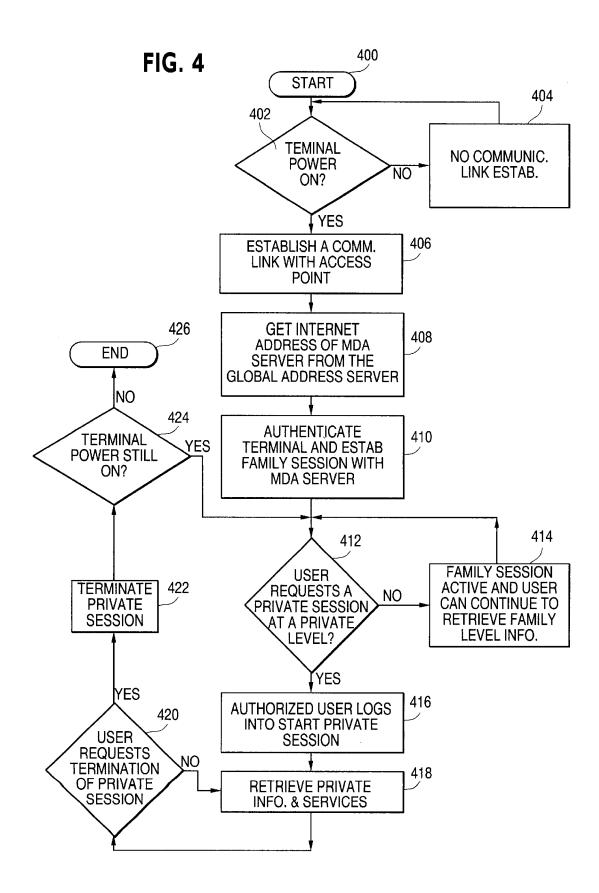














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