United States Patent [19]

Cree et al.

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[45] **Date of Patent:** Sep. 12, 1989

[54] **METHOD FOR AUTOMATICALLY RECONCILING ENTRIES ON TWO COPIES OF INDEPENDENTLY MAINTAINED ELECTRONIC CALENDARS**

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[21] Appl. No.: **8,249**

[22] Filed: **Jan. 29, 1987**

[51] Int. Cl.⁴ G06F 7/00; G06F 15/00
[52] U.S. Cl. **364/300**; 364/900; 364/974; 364/962; 364/918; 364/947.2; 340/706; 368/28
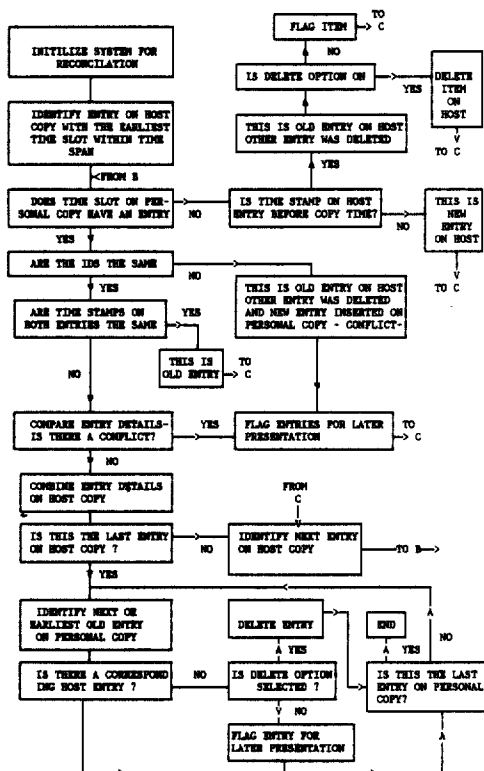[58] Field of Search ..... 364/900, 705.8, 200 MS File, 364/900 MS File, 300; 368/10, 28, 41; 340/706, 825.55; 40/107

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[57] **ABSTRACT**

An electronic calendaring method for use in a data processing system in which calendar entries that have been made for the same time span independently on two different copies of the calendar can be automatically and interactively reconciled. The method permits a calendar owner to obtain a machine readable transportable copy of his calendar on a diskette, to update that copy when the master copy is not available to him because of a business trip, for example, and upon his return to automatically and interactively reconcile the updated entries that have been made to both copies so that at least one of them reflects the correct status of calendered events for that owner.

11 Claims, 4 Drawing Sheets
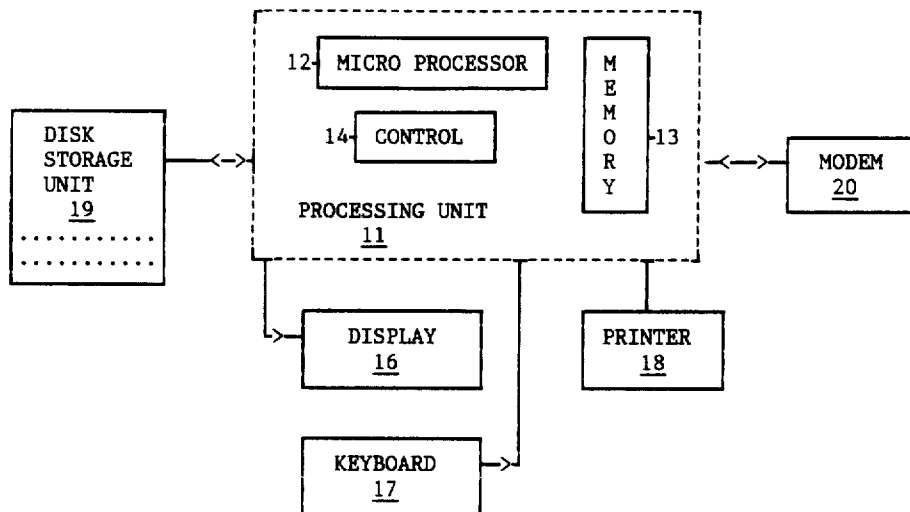
FIG. 1

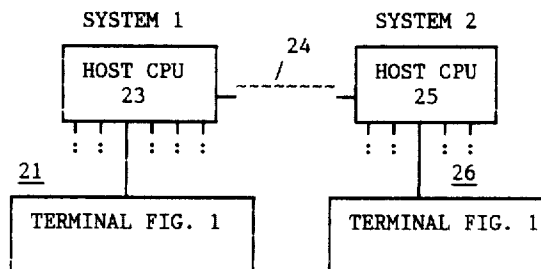FIG. 2

MOVE THE CURSOR TO EACH SELECTION OR KEY THE ITEM DIRECTLY AND HIT ENTER

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                                          August          1986
1. Calendar Entry, Meeting,                               1  2
   Appointment, Trigger,                  3  4  5  6  7  8  9
   Note, Vacation,                       10 11 12 13 14 15 16
   Holiday, Offsite,                     17 18 19 20 21 22 23
   Not Normal Work Hours                 24 25 26 27 28 29 30
                                         31
2. View Select
                                          September        1986
                                             1  2  3  4  5  6
3. Composite Calendar                     7  8  9 10 11 12 13
                                         14 15 16 17 18 19 20
4. Automatic Response                    21 22 23 24 25 26 27
                                         28 29 30
5. Reconcile

6. Conference Room

Command:_____(Key item nimber or item initials)

PF1=Help    PF2=Return to System    PF8=Next Screen
```

FIG. 3a

MOVE THE CURSOR TO EACH SELECTION OR KEY THE ITEM DIRECTLY AND HIT ENTER
Classification List: <u>Meeting</u>   <u>Appointment</u>   <u>Offsite</u>   <u>Vacation</u>   <u>Holiday</u>
      (PICK ONE)   <u>Note</u>   <u>Not Normal Work Hours</u>
Additional <u>Criteria:BX Priority X</u> (X = 1 to 10) <u>C OPEN TIME</u>
          <u>D USER DEFINEDFIELF</u> (D + 8 Characters)
CLASSIFICATION <u>1</u> (Select one classification from the above list)
   USER DEFINED FIELD _____PRIORITY____1 = Highest:10 lowest
      (1 IS THE HIGHEST, 10 IS THE LOWEST. PRIORITY IS THE DEFAULT CRITERIA)
Event Itentifier: _____
MEETING/APPOINTMENT INFORMATION:
          Date <u>10/07/86</u>   Start Time:<u>1:15 PM</u>   End Time: <u>5:00 PM</u>
          Date <u>10/09/86</u>   Start Time:<u>8:30 PM</u>   End Time: <u>5:00 PM</u>
          Names List: <u>D35 NAMES A1</u>
            Caller: <u>TOM ROBERTS</u>
           Subject: <u>1987 Budget</u>
             Place: <u>Conference Room 128F</u>
           Details: _____
Auto Schedule: <u>YES</u> NO   Event Duration (Minutes)_____(1 to 480)
      SEARCH CRETERIA;_____
Key in creteria separated by space from the list below.
<u>Priority X</u> <u>Any Classification</u>+(<u>Confirmed</u> or <u>Tentative</u>)+(<u>Attending</u> or <u>May</u>
<u>Attend</u>) <u>Open Time</u>   <u>Not Normal Work Hours</u>   <u>User Defined Field</u>

(PF 11 will scroll and add additional Date lines while on the Date Line)
(Rx after Date will repeat the event at the same time, x number of days)

PF1=Help   PF3=Cancel PF5=Send Notice PF6=Begin Search
PF8=Next Screen(Security, Status, Trigger) PF9=File PF10=Add One Line

FIG. 3b

```
MOVE THE CURSOR TO EACH SELECTION OR  KEY  THE ITEM  DIRECTLY  AND  HIT  ENTER

SECURITY:     Public    Shared    PrivateU
   (pick one)
STATUS:       Tentative        Confirmed
   (pick one)
TRIGGER:      Message    Audio    Process
   (All three may be picked)
     Date: 10/07/86        Time: 1:00 PM
     Date: 10/09/86        Time: 8:00 AM
(PF11 will scroll and add additional Date Lines while on the Date line)
(Rx after Date will repeat the event at the same time, x number of days)
     Names List:_____
     Message:_____
(PF10 will add one message line if hit when entering Message)
     Process:_____


TRIGGER FIXED OR FLOAT?      Fixed        Float
     (pick one)
     Float with Event Identifier:_____
       (If this event moves, the trigger will be moved to the same relative time)


     PF1=Help   PF3=Cancel  PF5=Send Notice PF6=Begin Search
     PF7=Previous Screen PF8=Next Screen  PF9=File  PF10=Add One Line
```

FIG. 3C

```
RECONCILE CALENDARS
     DELETED ENTRIES WILL BE DELETED OF FLAGGED
     OLD ENTRIES WILL COEXIST WITH NEW ENTRIES UNTIL EDITED
     NEW ENTRIES WILL COEXIST ON MASTER UNTIL EDITED
         Host Calendar Name:_____
      Personal Calendar name:_____
Time Stamp of Personal Copy    DATE DD/MM/YY_____   TIME HH:MM:SS
 RECONCILE Time Span:  Begin Date _____  Begin Time_____
                       End Date _____   End Time_ ____

DELETE ENTRIES ___ (Y/N) Y = Host copy entries without corresponding Personal
copy entries will be deleted. N = Entries will be flagged for viewing.
                       Begin Date _____  Begin Time_____
                       End Date _____   End Time_ ____

REPLACE ENTRIES___(Y/N)  Y = Entries in conflict with different Time Stamps will
be replaced on the Host copy. N = The entries will be flagged for viewing.
                       Begin Date _____  Begin Time_____
                       End Date _____   End Time_ ____

PF1 = Help  PF2 = Cancel  PF4 = Reconcile and return
```
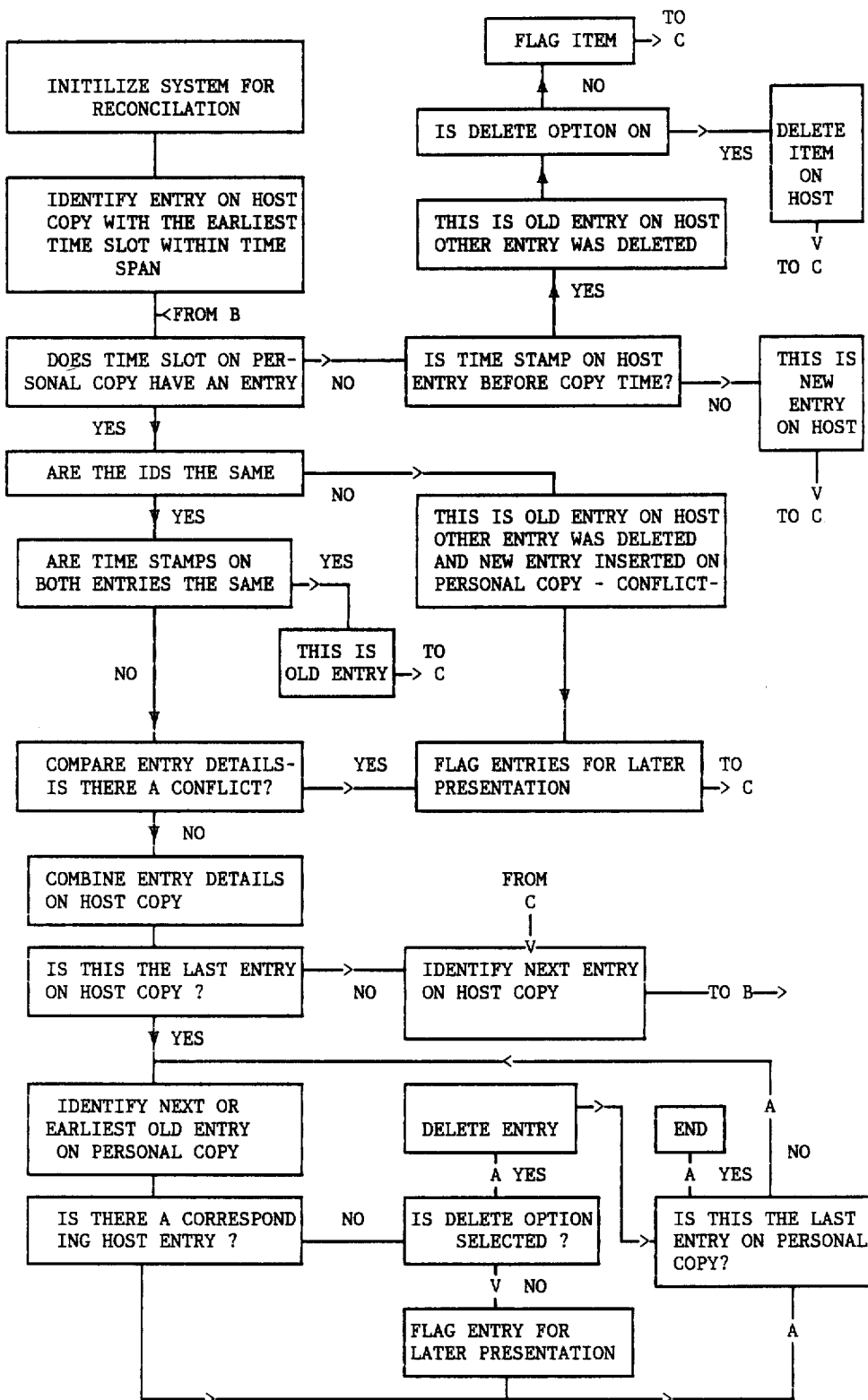
FIG. 4

FIG. 5

DOCKET ALARM

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