restaurant limit bookings for people only wanting to have one course at a peak time of say 7:30pm which may mean that the restaurant cannot use the table before that time and after that time when the preference should be to only offer a three course menu for bookings to be accepted at 7:30pm?

2. Secondly, yield management is essentially the application of a defined algorithm or mathematical formula to the control of inventory. As such, a yield management module in the context of a software solution must be able to specifically control and release inventory. Bossert fails to provide a yield management solution that is capable of controlling the release of inventory, as the disclosure, at Figure 3 describes a process where a capacity calculation module ("60") firstly determines capacity (using constraint programming and its inherent limitations) and only then does the proposed yield management calculation module ('70") accept or reject a reservation request. By taking this approach, Bossert is essentially "putting the cart before the horse".

[00128] The yield management disclosure of Bossert has no practical utility, nor is it an enabling disclosure, as it does not adhere to yield management principles, it does not properly apply yield management principles and it does not describe a workable solution. It is, at best, a mere "paper anticipation" for a set of ideas, not a workable embodiment that utilises yield management terminology.

Summary

[00128a] There is provided a computing system for effecting an optimised condition including at least one quantitative or qualitative criteria for optimisation, for one or more booking requests in a venue having one or more spaces, comprising: an allocation module executing on a processor and arranged to retrieve the one or more booking requests from a database containing a plurality of booking requests, the one or more booking requests including requestor constraint information regarding one or more constraints provided by the booking requestor including a predefined service period, and retrieve venue constraint information from a database, the venue constraint information including venue spatial information including a shape, physical size and attributes of the venue, and furniture spatial information including a shape, size and physical attributes of one or more available furniture items locatable within the one or more spaces in the venue, wherein the allocation module executes an allocation algorithm that utilises the booking information and the venue constraint information, including the venue spatial information and the furniture spatial information to determine the capacity of the one or more spaces in the venue and allocate a portion of space, including the selection of one or more available furniture items locatable within the space for the predefined service period, whereby the allocation of the portion of the space is effected utilising the requestor information for each booking request in order to satisfy the optimised

condition, to derive an optimised allocation instruction set of allocated portions, wherein the instruction set is saved in the database and provided to a space allocation user interface for display to one or more users.

[00129] In a first aspect, the present disclosure provides a computing system for optimising and allocating bookings within a space for a defined period of time in a venue, comprising an optimisation and allocation module in communication with a processor and arranged to receive the at least one request and communicate with a database to determine whether other requests for spaces have been made by other users, and if so, utilise the processor to retrieve information regarding the other requests for spaces and combine the at least one request with other requests to form a pool of requests, retrieve constraint information regarding the venue including information regarding the size of the venue and the size and quantity of available furniture that may be allocated to the space in the venue, and in a structured way iteratively allocate all requests from the pool of requests utilising the restraint information to produce an optimised and/or prioritised allocation instruction set, wherein the optimised and/or prioritised allocation instruction set saved in the database and provided by a space allocation user interface to one or more users associated with the venue.

[00130] In one embodiment, to provide a computing system and a user interface to at least one remote user to input the restaurant's floor plans to scale to be stored in the data base.

[00131] In one embodiment, to provide a computing system and a user interface to at least one remote user to input and divide the restaurant's scaled plans into