DISTRIBUTED MATCHING ENGINE

CROSS REFERENCE TO RELATED APPLICATION

[0001] This application claims the benefit of US provisional application No. 61/737,553 filed December 14, 2012 and 13/832,472 filed March 15, 2013 to Jacob Loveless, both of which are hereby incorporated by reference herein in their entireties.

FIELD

[0002] Some embodiments relate to matching and/or trading items.

BACKGROUND

[0003] Systems may be used for the electronic matching and/or trading of items between users.

SUMMARY OF INVENTION

[0003a] According to an aspect, there is provided a system comprising a plurality of servers including at least a first server and a second server, wherein the plurality of servers interconnected by at least one network: wherein the first server is configured to: maintain a first order book for an item to be traded; receive a first order for the item, wherein the first order includes a quantity; place the first order in the first order book, wherein the first server is responsible for controlling execution of contra-orders against the first order; and communicate the first order on the network; wherein the second server is configured to: maintain a second order book for the item; receive the first order communicated by the first server; place the first order in the second order book; receive a second order for the item; determine the second order is a contra-order to the first order; and in response to determining the second order is a contra-order to the first order, communicate the second order to the first server; wherein the first server is further configured to: receive the second order from the second server; determine whether the first order is available; when available, execute a trade between the first and second orders; remove the first order from the first order book when the second order is for all available quantity of the first order; and communicate a confirmation message on the network indicating the first order is traded against; and wherein the second server is further configured to: receive the confirmation

message; and in response to receiving the confirmation message, remove the first order from the second order book when the second order is for all available quantity of the first order.

BRIEF DESCRIPTION OF THE FIGURES

[0004] Figure 1 shows an example distributed matching engine according to some embodiments.

DETAILED DESCRIPTION

[0005] Referring to Figure 1, there is shown an example system 100 according to an example embodiment. System 100 may include one or more computing systems (e.g. servers) 101-106. Computing systems 101-106 may be referred to herein as servers for purposes of description. However, it should be understood that the use of the term server is non-limiting, and that other types of computing systems may be used.

[0006] Each server 101-106 may include one or more processors and one or more memories, which may include one or more databases. Each server may include one or more network hardware/software/firmware based interfaces that enable the server to connect to and communicate over network 110. Network 110 may include a public and/or private network(s) and be a wired and/or wireless network based on any type of technology. Network 110 may also include a bus and/or backplane type architecture. Network 110 may include one or more elements including routers, switches, etc. Network 110 may be configured to allow at least each of servers 101-106 to communicate with the other. Network 110 may also be configured to allow servers 101-106 to communicate with other