



(11) **EP 2 693 337 A8**

(12) **CORRECTED EUROPEAN PATENT APPLICATION**

(15) Correction information:

Corrected version no 1 (W1 A1)
Corrections, see
Bibliography INID code(s) 72

(51) Int Cl.:

G06F 9/54 (2006.01)

(48) Corrigendum issued on:

09.04.2014 Bulletin 2014/15

(43) Date of publication:

05.02.2014 Bulletin 2014/06

(21) Application number: **12368017.5**

(22) Date of filing: **02.08.2012**

(84) Designated Contracting States:

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB
GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO
PL PT RO RS SE SI SK SM TR

Designated Extension States:

BA ME

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(54) **Method, system and computer program products for sequencing asynchronous messages in a distributed and parallel environment**

(57) The invention provides a system and a computer-implemented method of sequencing distributed asynchronous messages in a distributed and parallel system having a plurality of inbound handlers (810, 820, ..., 840) and a plurality of outbound handlers (860, 870, 880, 890), the method comprising the following steps performed with at least one data processor:

receiving in an inbound handler (810) an incoming message (801-1) with a sequence correlation value that identifies a sequence comprising the incoming message, checking for a sequence status of said sequence in a sequence storage (800);

determining if the incoming message is the next message to be processed for maintaining the order of the messages in said sequence;

i. if the sequence status indicates that none of the outbound handler (860, 870, 880, 890) is currently processing a message for said sequence and if the incoming

message is determined to be the next message to be processed for said sequence, then forwarding the incoming message to a queue storage (850) and subsequently forwarding it to an available outbound handler (860, 870, 880, 890) for processing;

if the sequence status indicates that at least one of the outbound handlers (860, 870, 880, 890) is currently processing a message of said sequence; or if the queue storage (850) already comprises a message to be processed for said sequence; or if the incoming message is determined not to be the next message to be processed for said sequence, then storing the incoming message (801-1) in a memory of an overflow storage (806) to keep for further processing.

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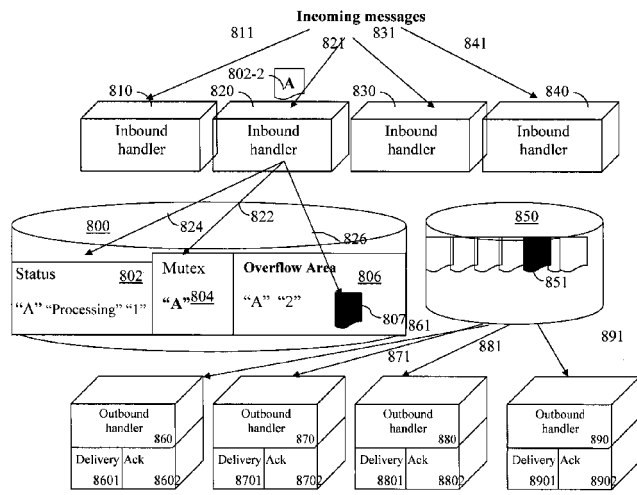


FIGURE 8B