

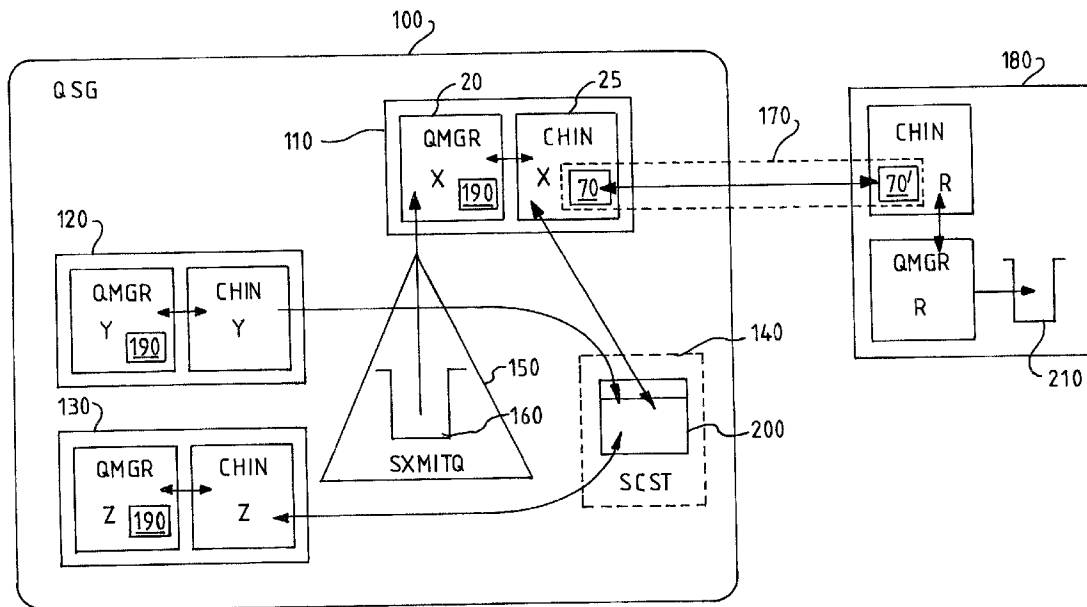
(19) **United States**(12) **Patent Application Publication** (10) **Pub. No.: US 2002/0064126 A1****Bhattal et al.**(43) **Pub. Date: May 30, 2002**(54) **RECOVERY FOLLOWING PROCESS OR SYSTEM FAILURE**(30) **Foreign Application Priority Data**

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(75) Inventors: **Amardeep Singh Bhattal**, Hampshire (GB); **Morag Ann Hughson**, Southampton (GB); **Neil Kenneth Johnston**, Hampshire (GB); **Anthony John O'Dowd**, Winchester (GB)**Publication Classification**(51) **Int. Cl.⁷** **H04L 1/00**(52) **U.S. Cl.** **370/217; 370/242**(57) **ABSTRACT**

Provided are methods, data communication apparatus and computer programs for managing communications between a remote communication manager and a set of communications managers in an associated group. The group of communication managers have shared access to resources which enable any communication manager in the group to recover from failures experienced by another communication manager in the group. In particular, recovery of failed inbound and outbound channels is achieved with the advantage of improved availability of data transmissions. Preferably, the recovery uses synchronization information to ensure that data is recovered to a consistent state to that channel recovery is achieved without loss of data integrity.

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IBM Corp, IP Law Dept T81/503**3039 Cornwallis Road****PO Box 12195****Research Triangle Park, NC 27709-2195 (US)**(73) Assignee: **International Business Machines Corporation**, Armonk, NY(21) Appl. No.: **09/844,002**(22) Filed: **Apr. 27, 2001**

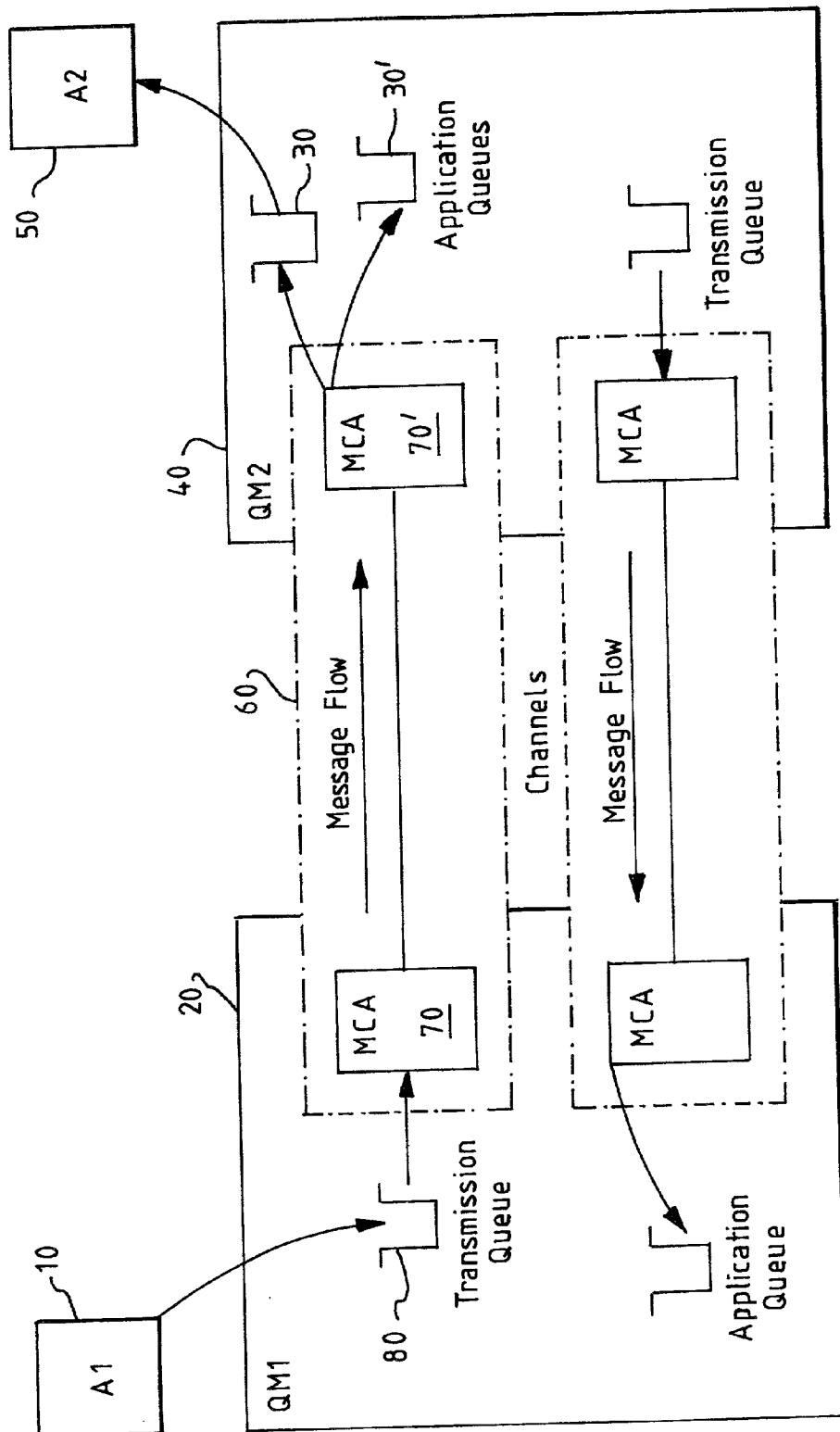


FIG. 1 PRIOR ART

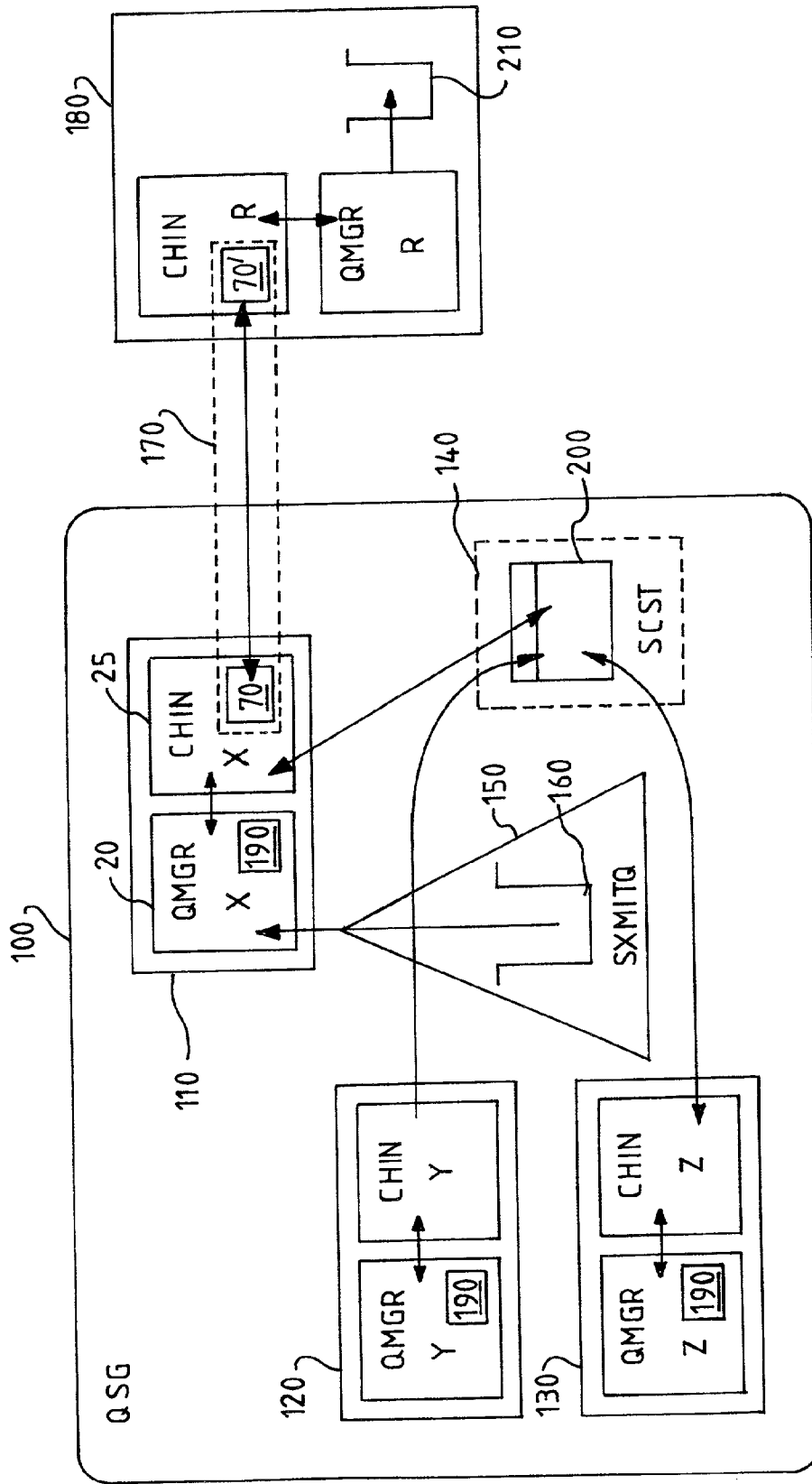
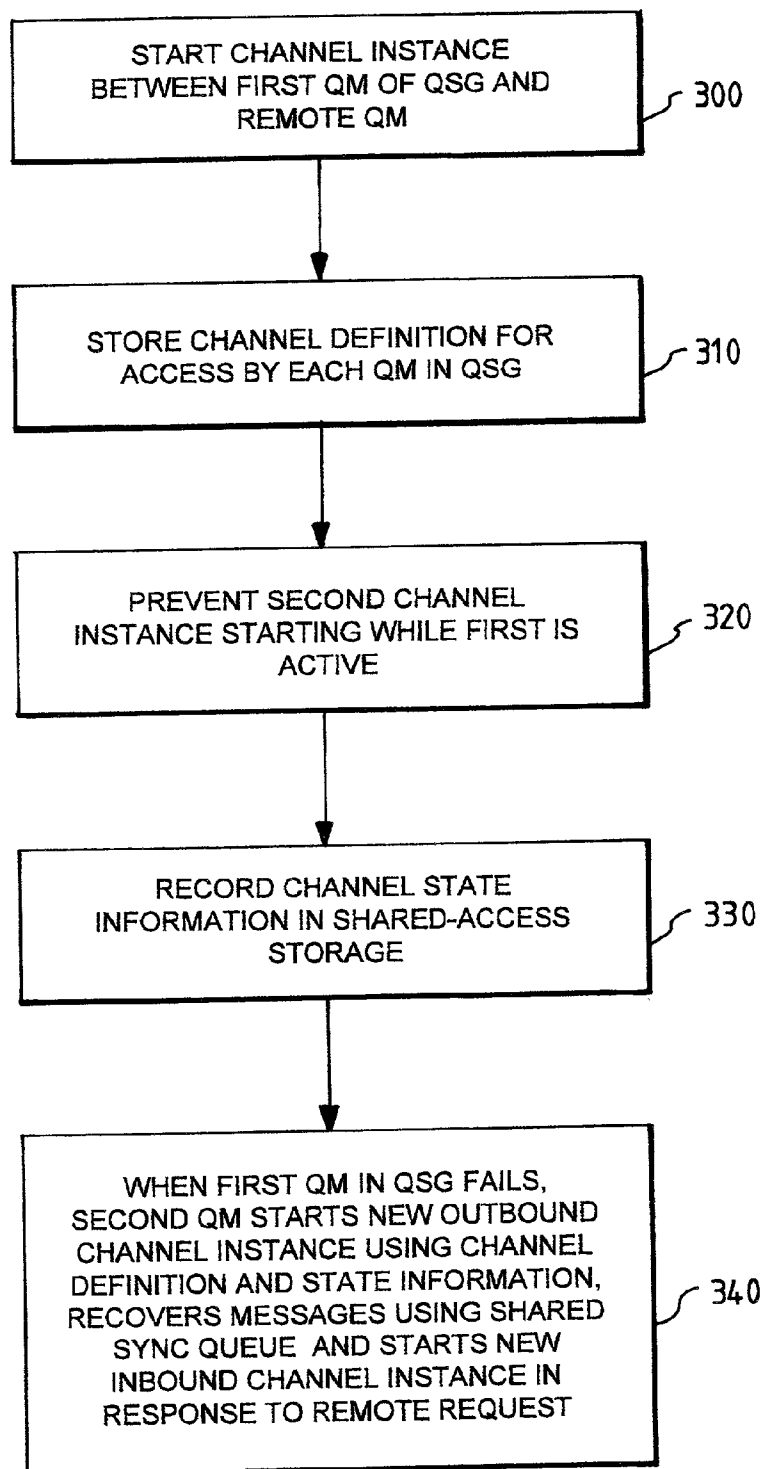


FIG. 2

FIG. 3

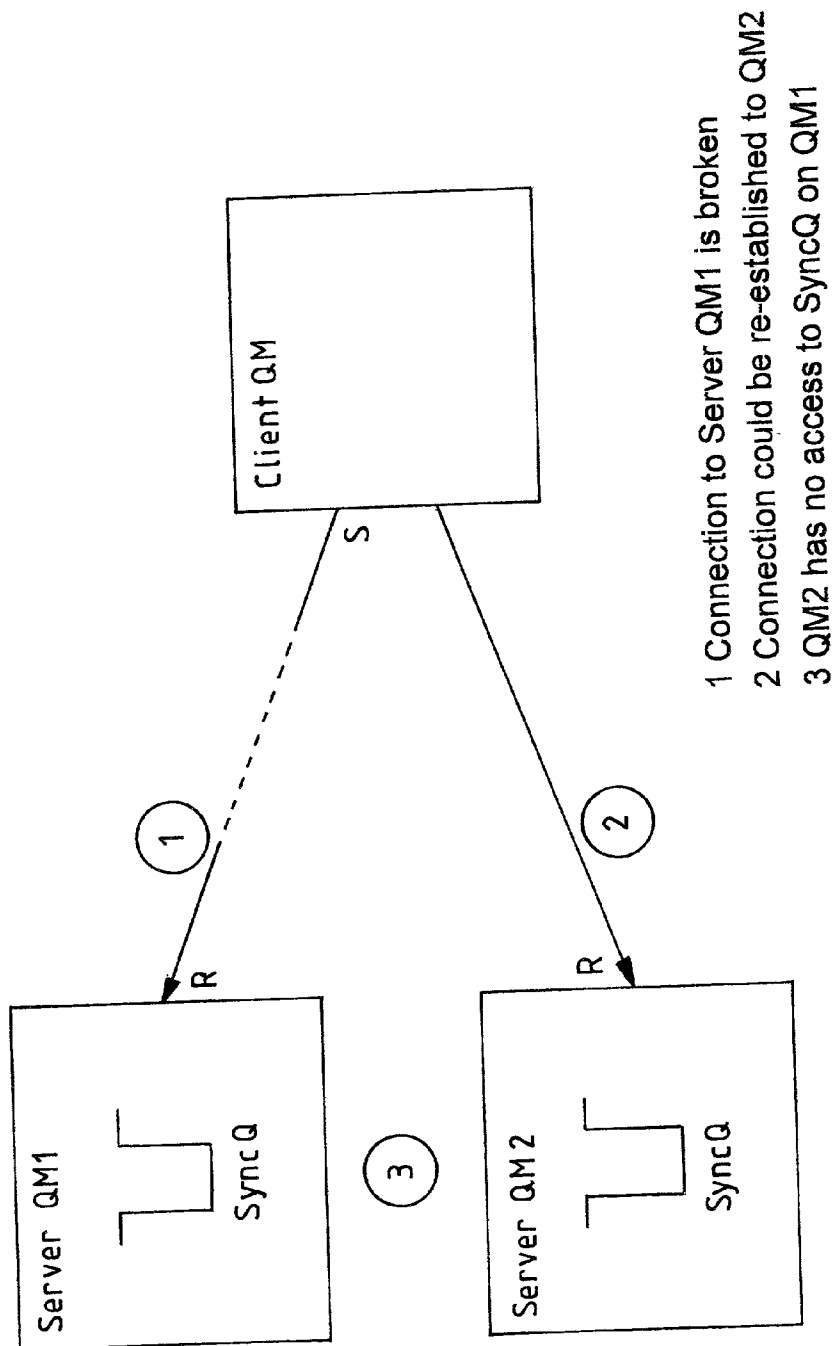


FIG. 4

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