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(12) **United States Patent**
Bennett

(10) **Patent No.:** **US 7,336,618 B2**

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(54) **METHOD FOR MONITORING PERFORMANCE OF NETWORK USING IP MEASUREMENT PROTOCOL PACKETS**

(58) **Field of Classification Search** None
See application file for complete search history.

(75) **Inventor:** **Jon Claude Russell Bennett**, Sudbury, MA (US)

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(73) **Assignee:** **General Instrument Corporation**, Horsham, PA (US)

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(*) **Notice:** Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 848 days.

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(21) **Appl. No.:** **10/648,552**

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(65) **Prior Publication Data**

US 2004/0095926 A1 May 20, 2004

(57) **ABSTRACT**

Related U.S. Application Data

(60) Provisional application No. 60/421,303, filed on Oct. 25, 2002.

The practice and need for active network measurement is well established, however, current tools are not well suited to this task, mostly because the protocols which they employ have not been designed for measurement of the modern Internet. The IP Measurement Protocol (IPMP) is based on packet-probes, and is designed to allow routers to participate in measurements by the insertion of path information as the probe passes between a pair of hosts.

(51) **Int. Cl.**
H04L 12/26 (2006.01)
H04L 12/28 (2006.01)

(52) **U.S. Cl.** 370/252; 370/389

20 Claims, 12 Drawing Sheets

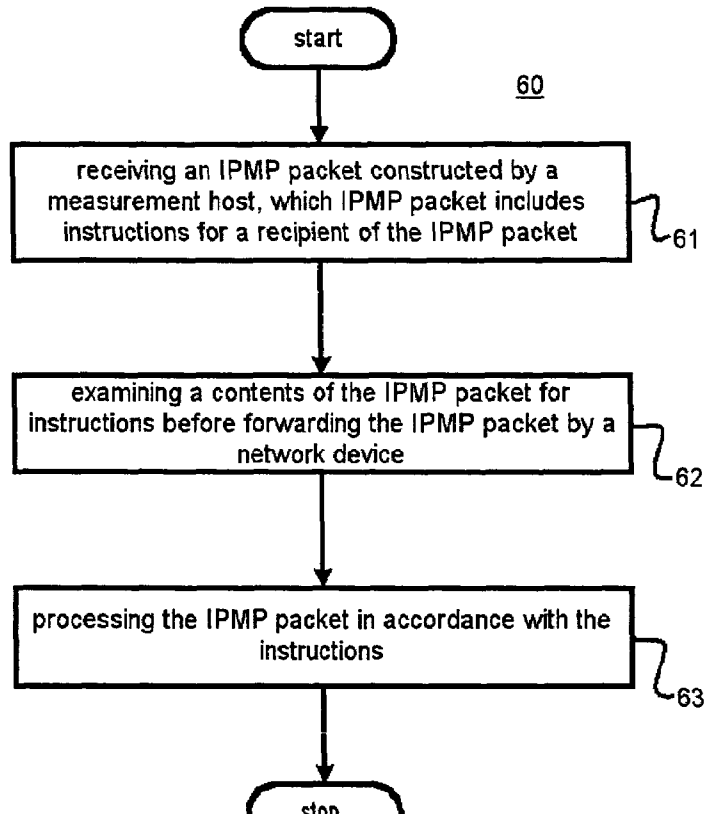


FIG 1

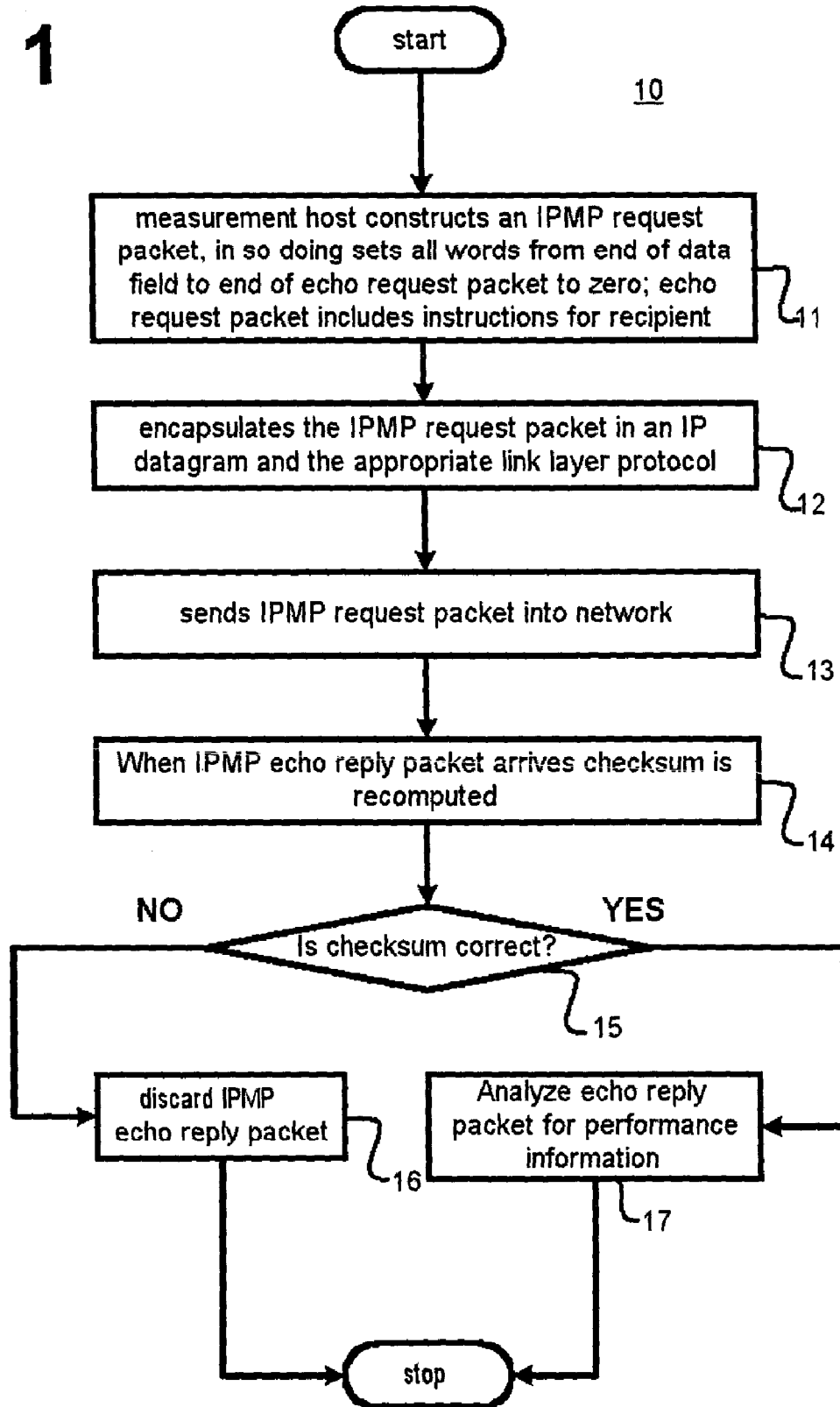


FIG 2

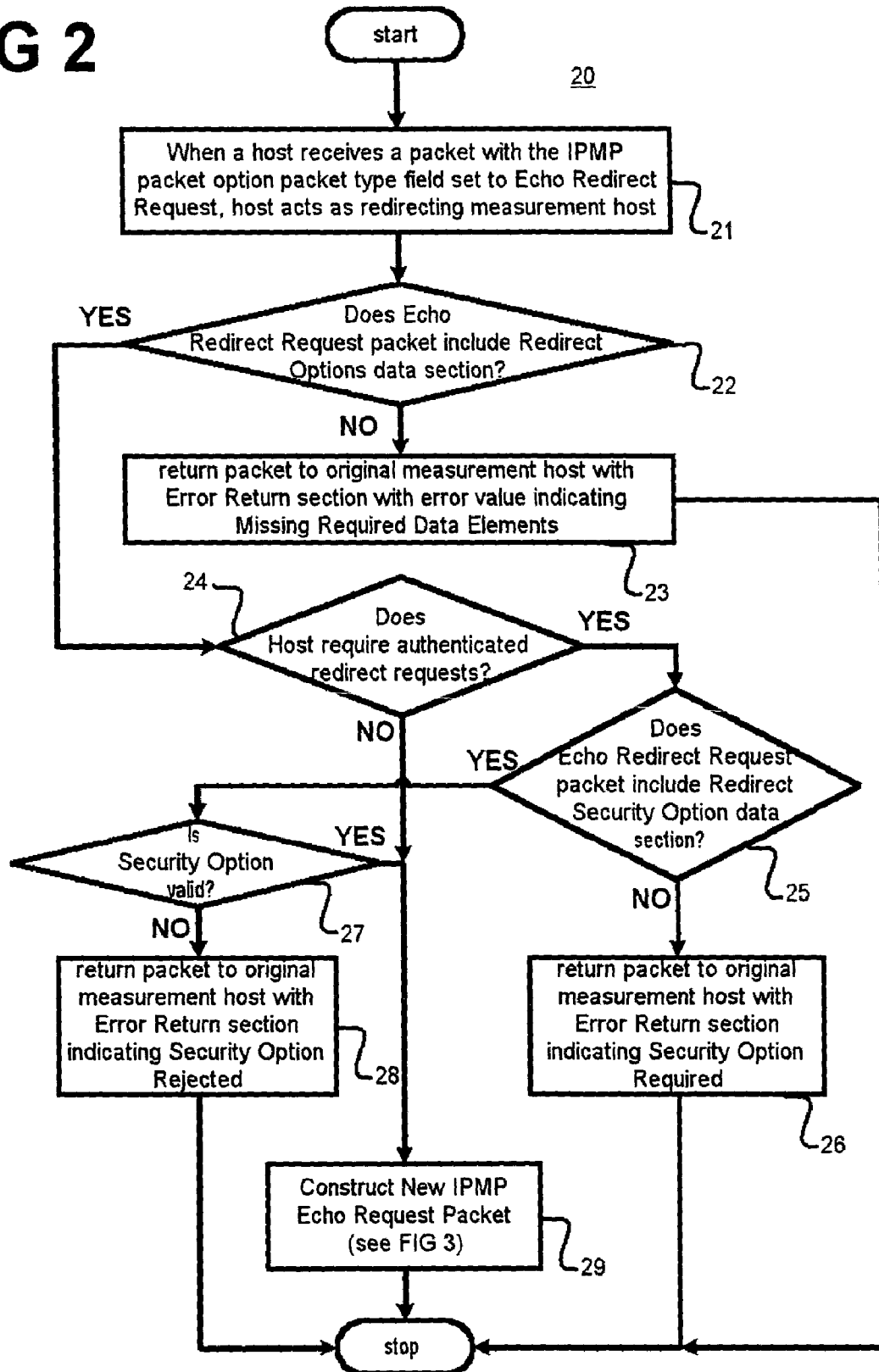


FIG 3

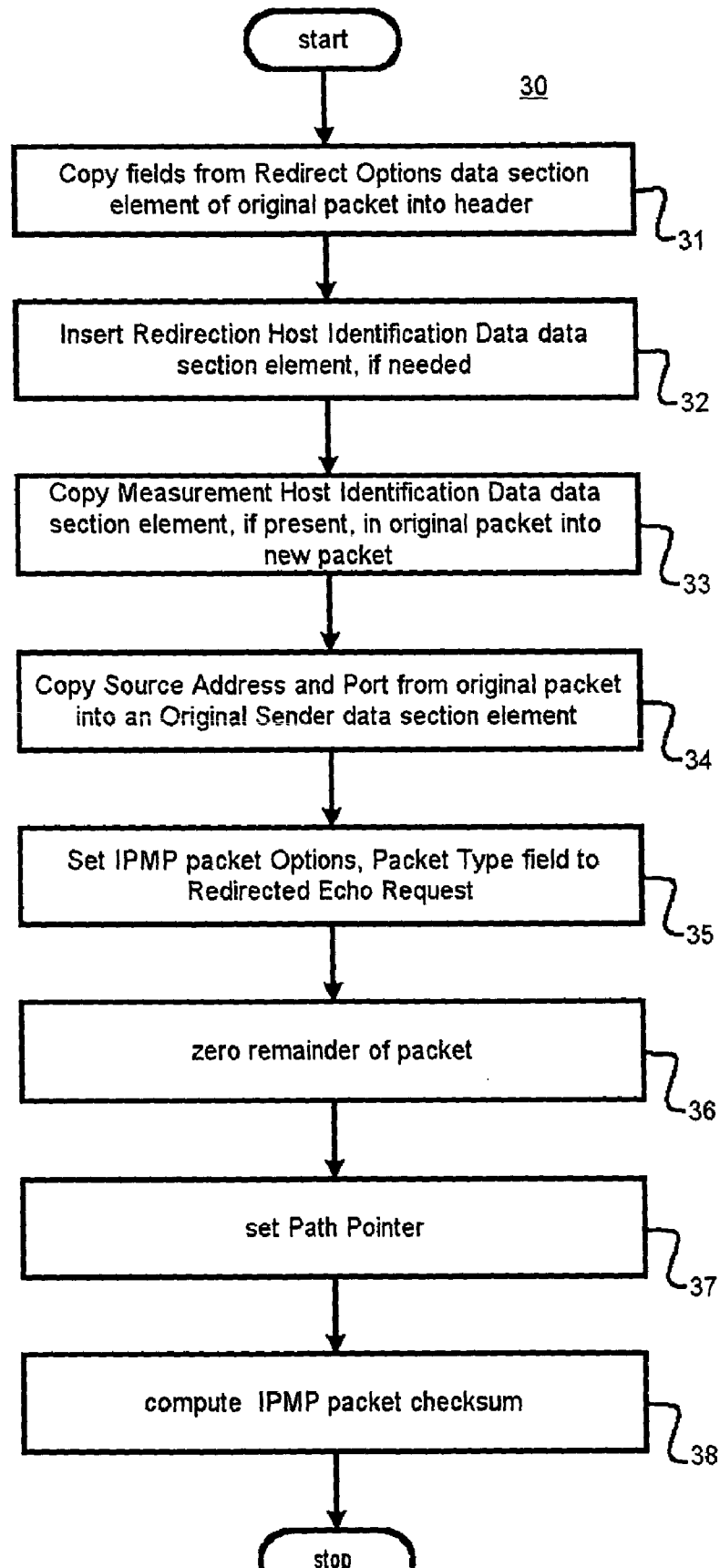
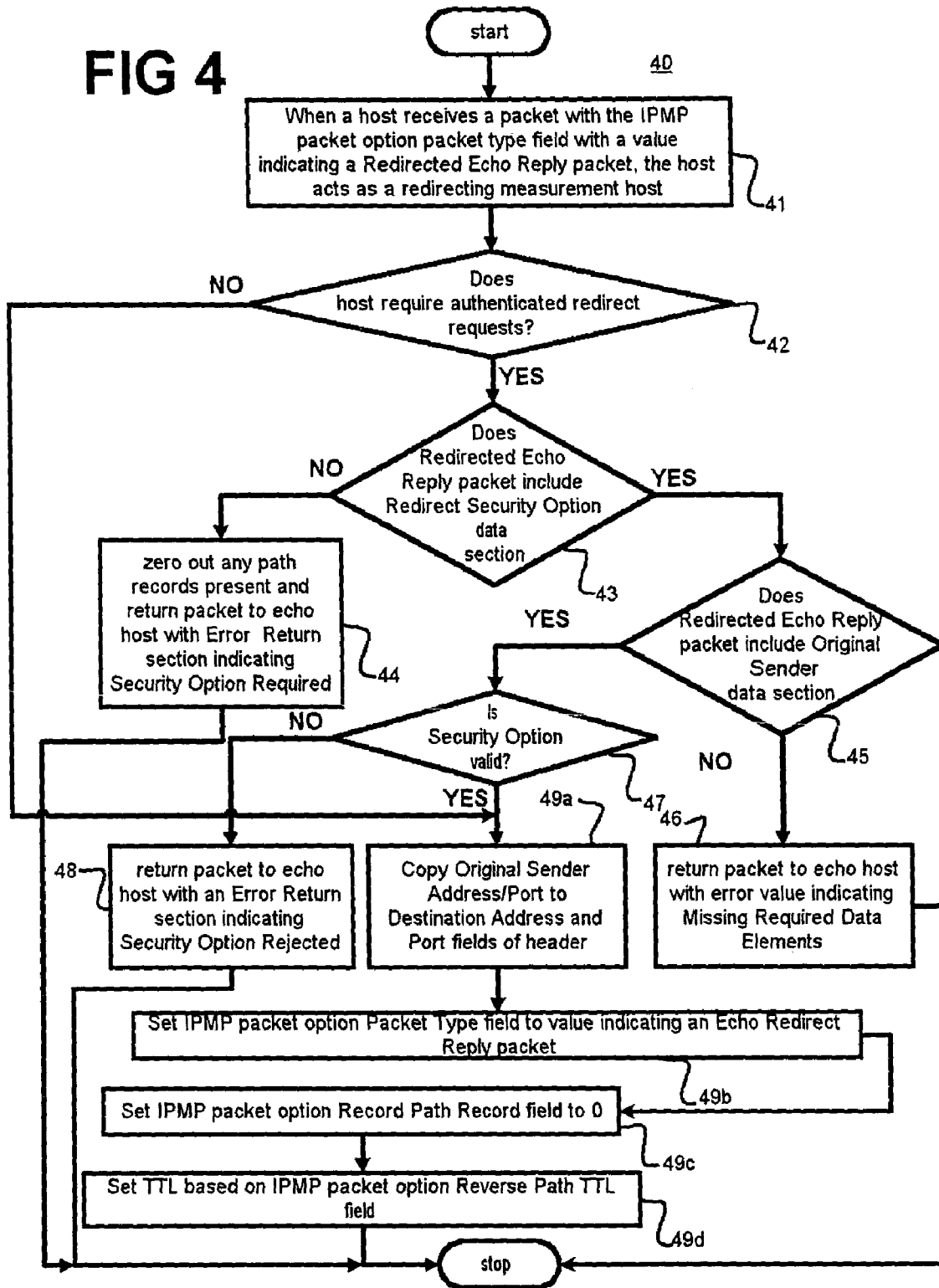


FIG 4



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