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Silverbrook et al.

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(54) **MODULAR PRINTHEAD ASSEMBLY WITH A CARRIER OF A METAL ALLOY**

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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 0 days.

This patent is subject to a terminal disclaimer.

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(65) **Prior Publication Data**

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Related U.S. Application Data

(63) Continuation of application No. 11/250,450, filed on Oct. 17, 2005, now Pat. No. 7,066,573, which is a continuation of application No. 10/728,922, filed on Dec. 8, 2003, now Pat. No. 6,997,545, which is a continuation of application No. 10/102,700, filed on Mar. 22, 2002, now Pat. No. 6,692,113.

(30) **Foreign Application Priority Data**

Mar. 27, 2001 (AU) PR3996

(51) **Int. Cl.**
B41J 2/14 (2006.01)
B41J 2/16 (2006.01)

(52) **U.S. Cl.** **347/49**; 347/50

(58) **Field of Classification Search** 347/12–13, 347/20, 40, 42, 49–50, 63, 65, 67
See application file for complete search history.

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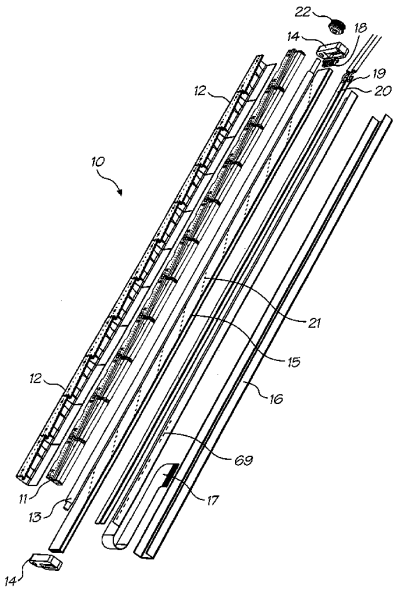
(57) **ABSTRACT**

A modular printhead includes an elongate carrier. An elongate fluid transporter can be received in the carrier and defines a plurality of channels that can each transport a respective type of fluid. A plurality of printing modules is configured is mounted to the elongate ink transporter so that each printing module engages in fluid communication with each channel. A flexible printed circuit board (PCB) is located between the carrier and the fluid transporter. The PCB includes data connections to be interfaced to the printing modules.

9 Claims, 19 Drawing Sheets



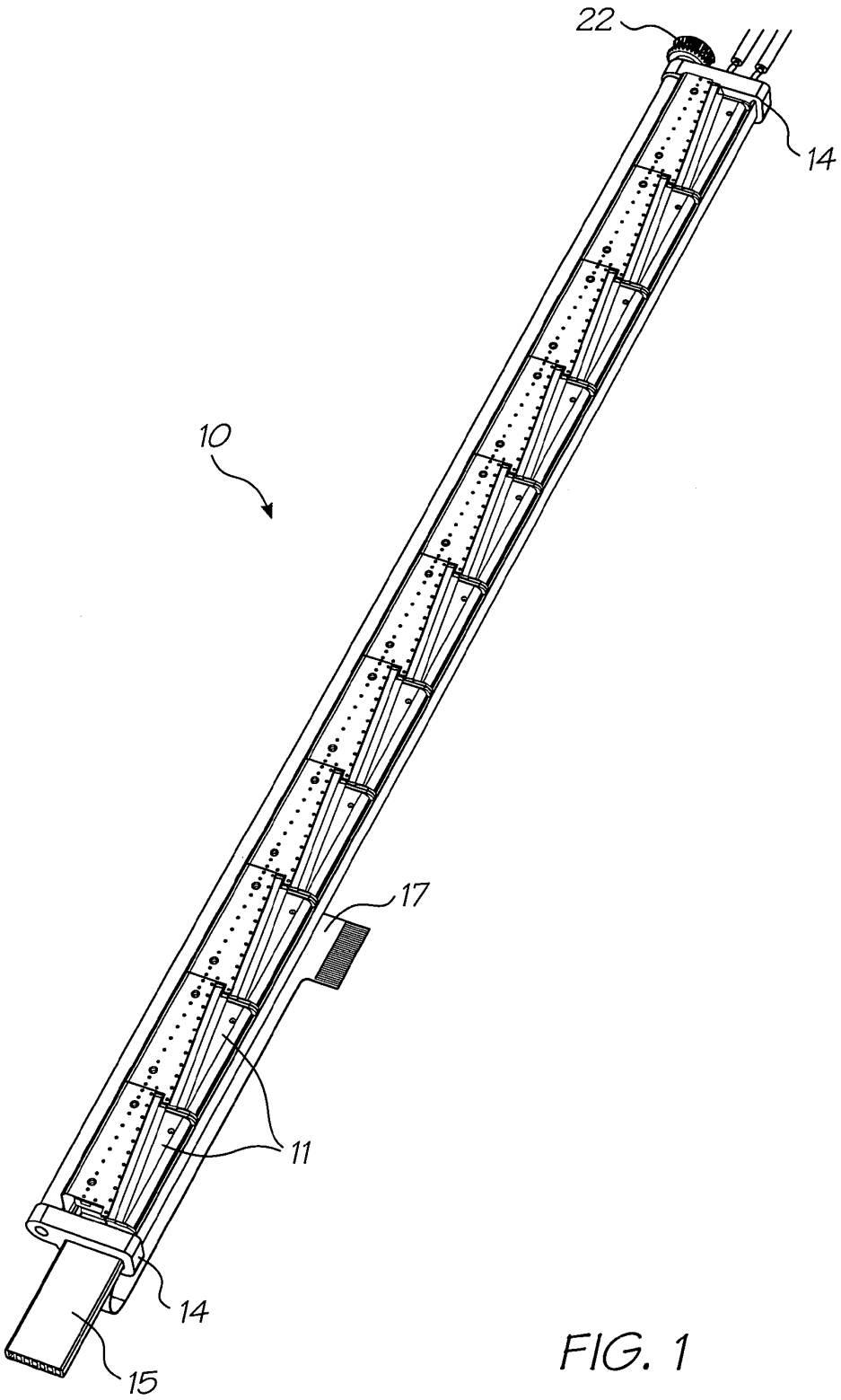


FIG. 1

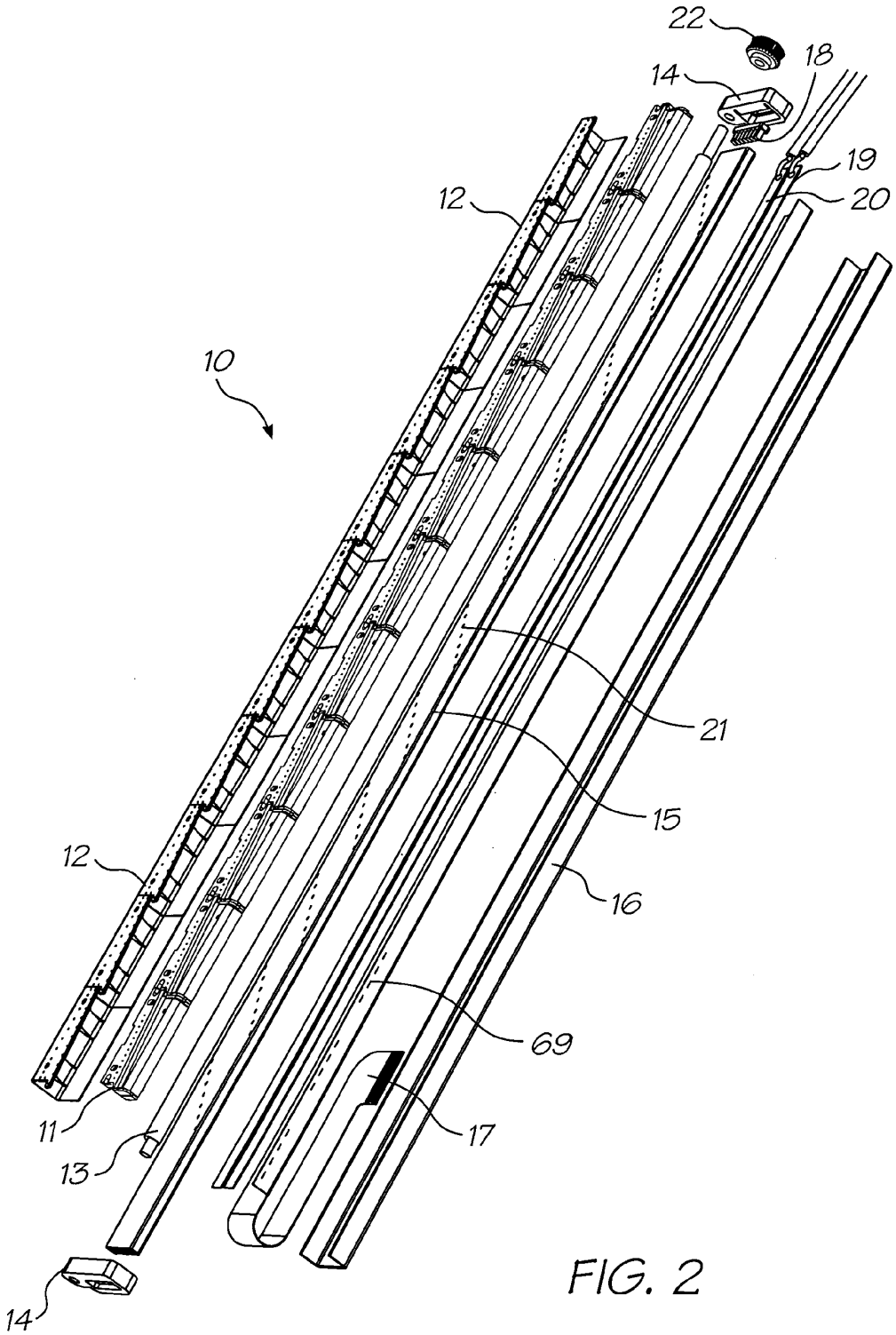


FIG. 2

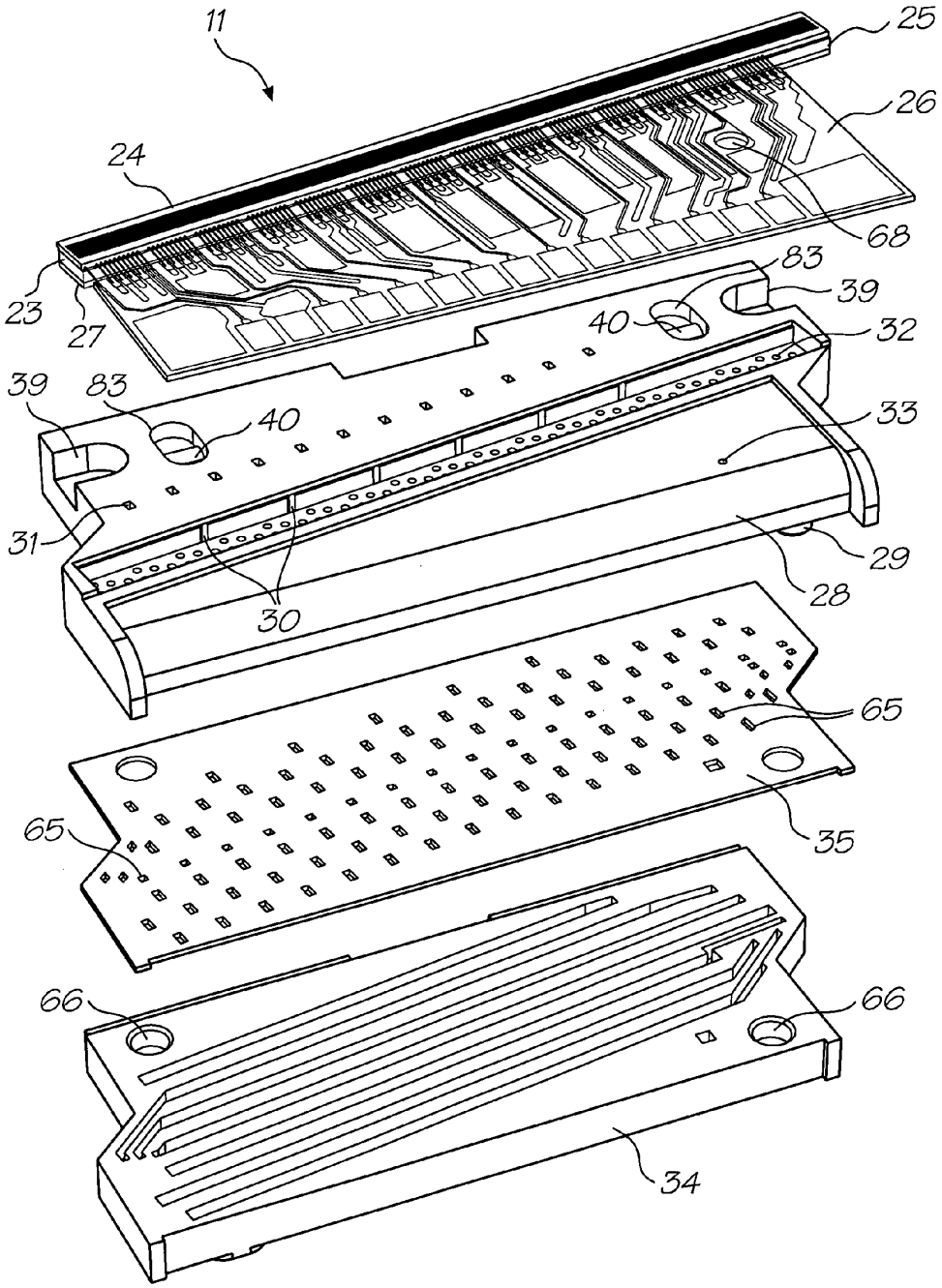


FIG. 3

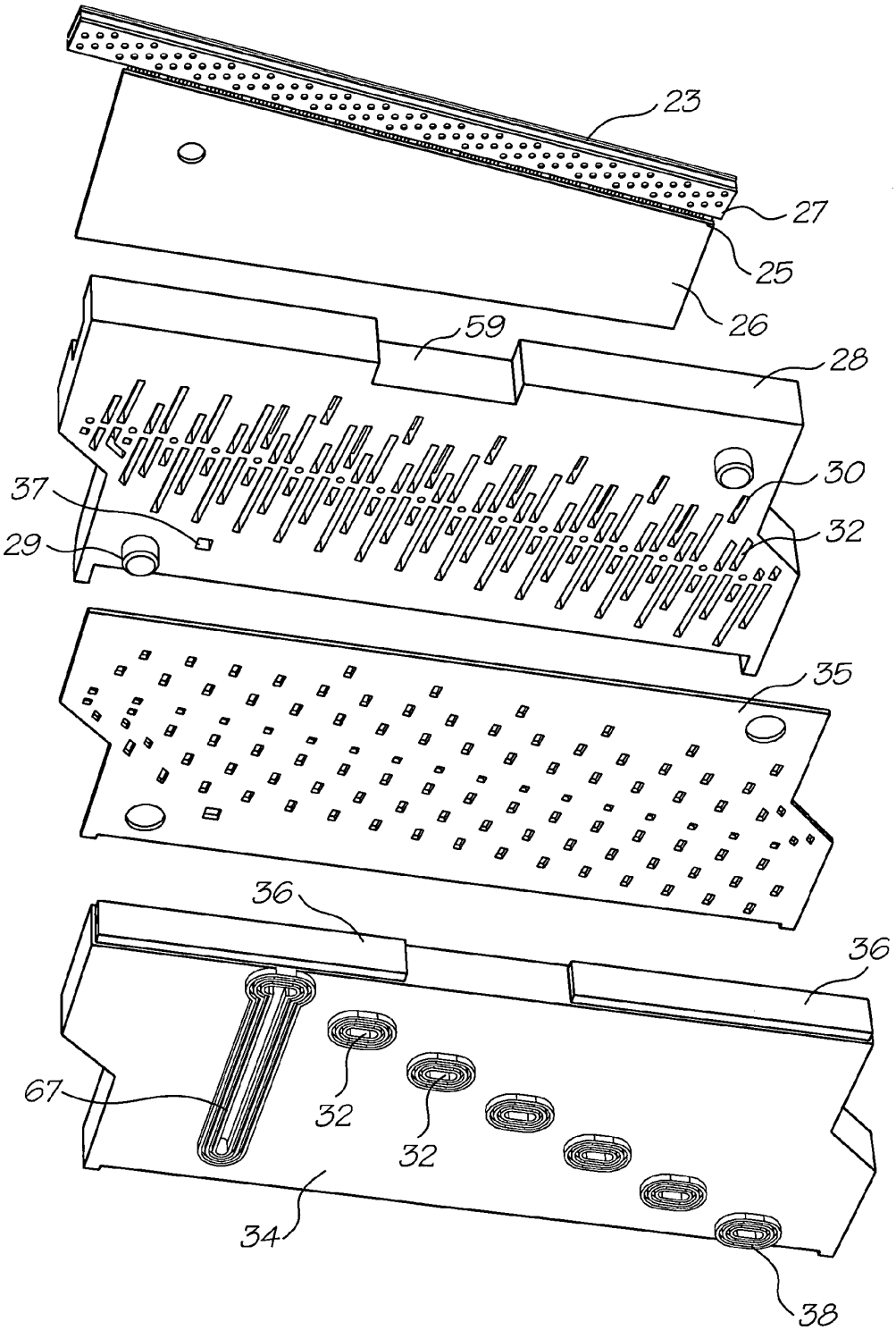


FIG. 3a

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