



- [54] **CARDIOVASCULAR BIOREACTOR APPARATUS AND METHOD**
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- [21] Appl. No.: **08/796,573**
- [22] Filed: **Feb. 6, 1997**

[56] **References Cited**
U.S. PATENT DOCUMENTS

| | | | |
|-----------|---------|---------------|-----------|
| 3,639,084 | 2/1972 | Goldhaber | 435/284.1 |
| 3,753,865 | 8/1973 | Belzer et al. | 435/284.1 |
| 3,772,153 | 11/1973 | De Roissart | 435/284.1 |
| 3,777,507 | 12/1973 | Burton et al. | 435/284.1 |
| 3,843,455 | 10/1974 | Bier | 435/284.1 |
| 4,745,759 | 5/1988 | Bauer et al. | 435/284.1 |
| 5,285,657 | 2/1994 | Bacchi et al. | 435/284.1 |
| 5,326,706 | 7/1994 | Yland et al. | 435/284.1 |
| 5,338,662 | 8/1994 | Sadri | 435/284.1 |
| 5,362,622 | 11/1994 | O'Dell et al. | 435/284.1 |

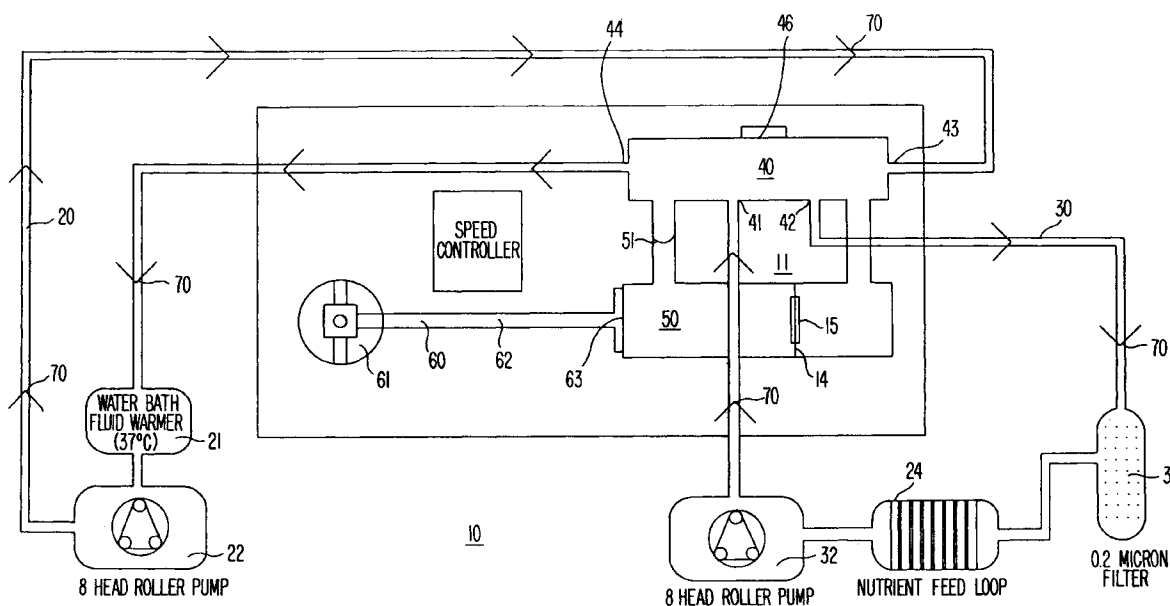
Related U.S. Application Data

- [63] Continuation of application No. 08/482,990, Jun. 7, 1995, abandoned.
- [51] Int. Cl.⁶ **C12M 3/00**
- [52] U.S. Cl. **435/284.1; 435/289.1; 435/307.1**
- [58] Field of Search **435/284.1, 289.1, 435/307.1**

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[57] **ABSTRACT**
The invention involves a method and apparatus for processing biological material, such as heart valves and vascular grafts.

12 Claims, 6 Drawing Sheets



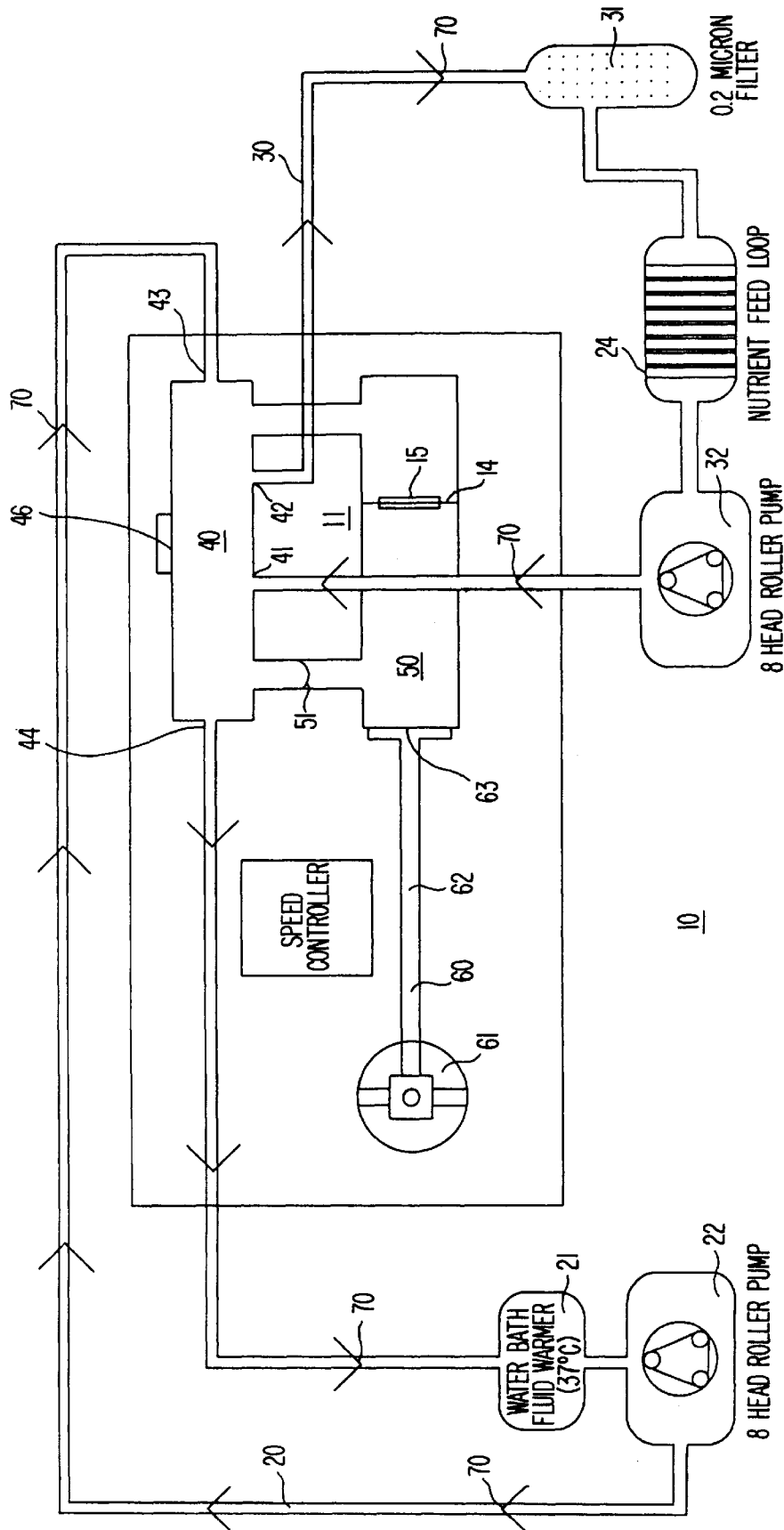


FIG. 1

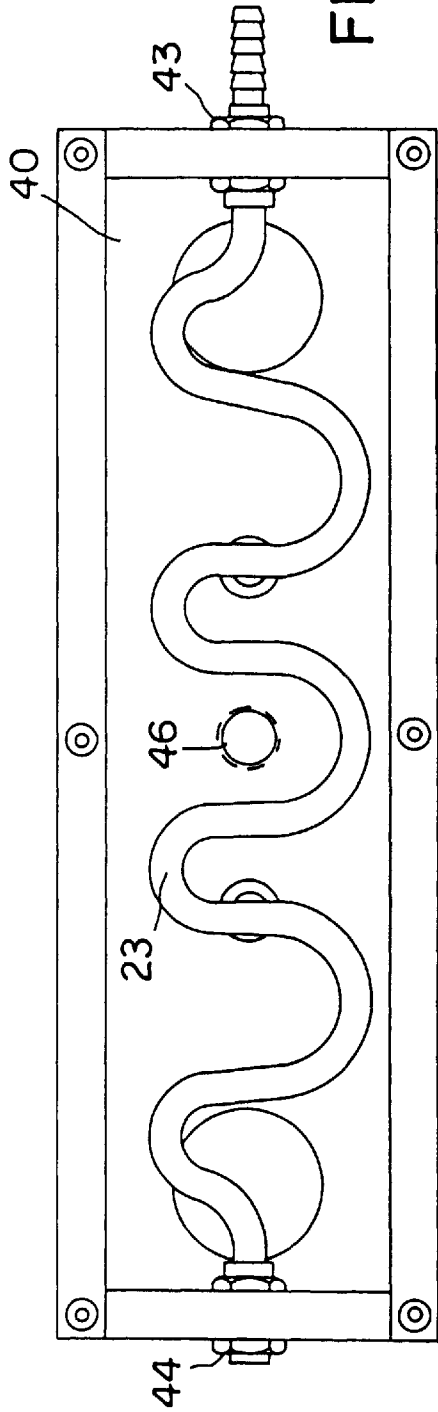


FIG. 2A

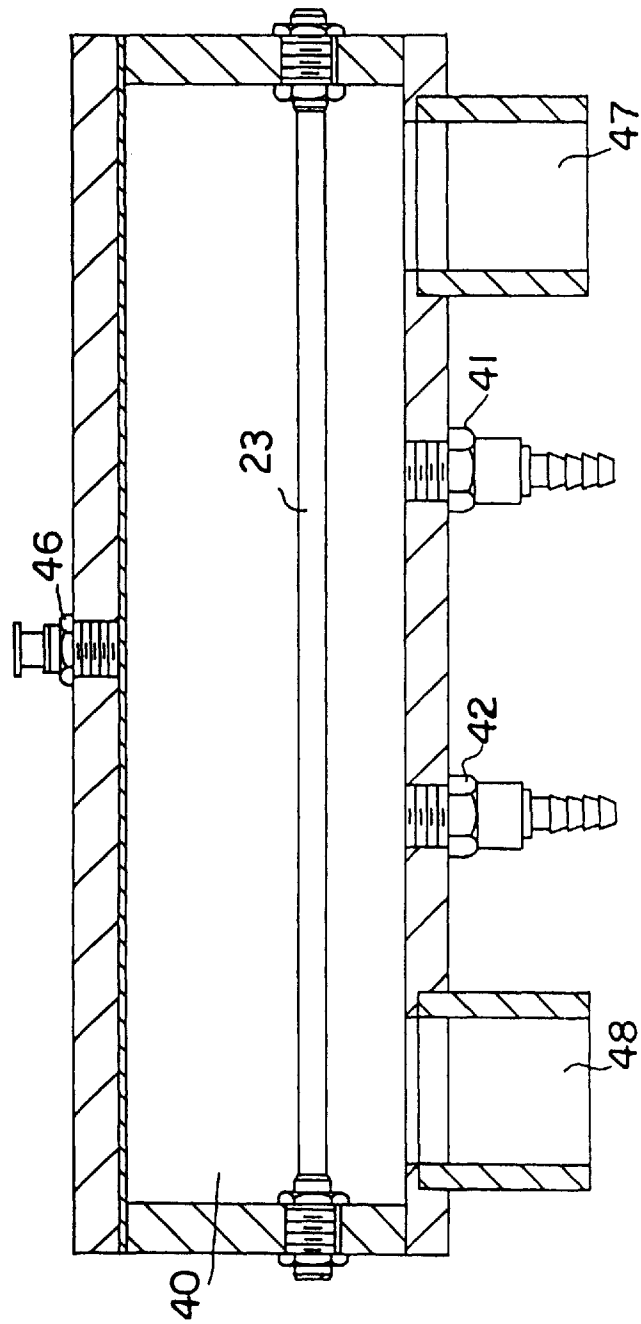


FIG. 2B

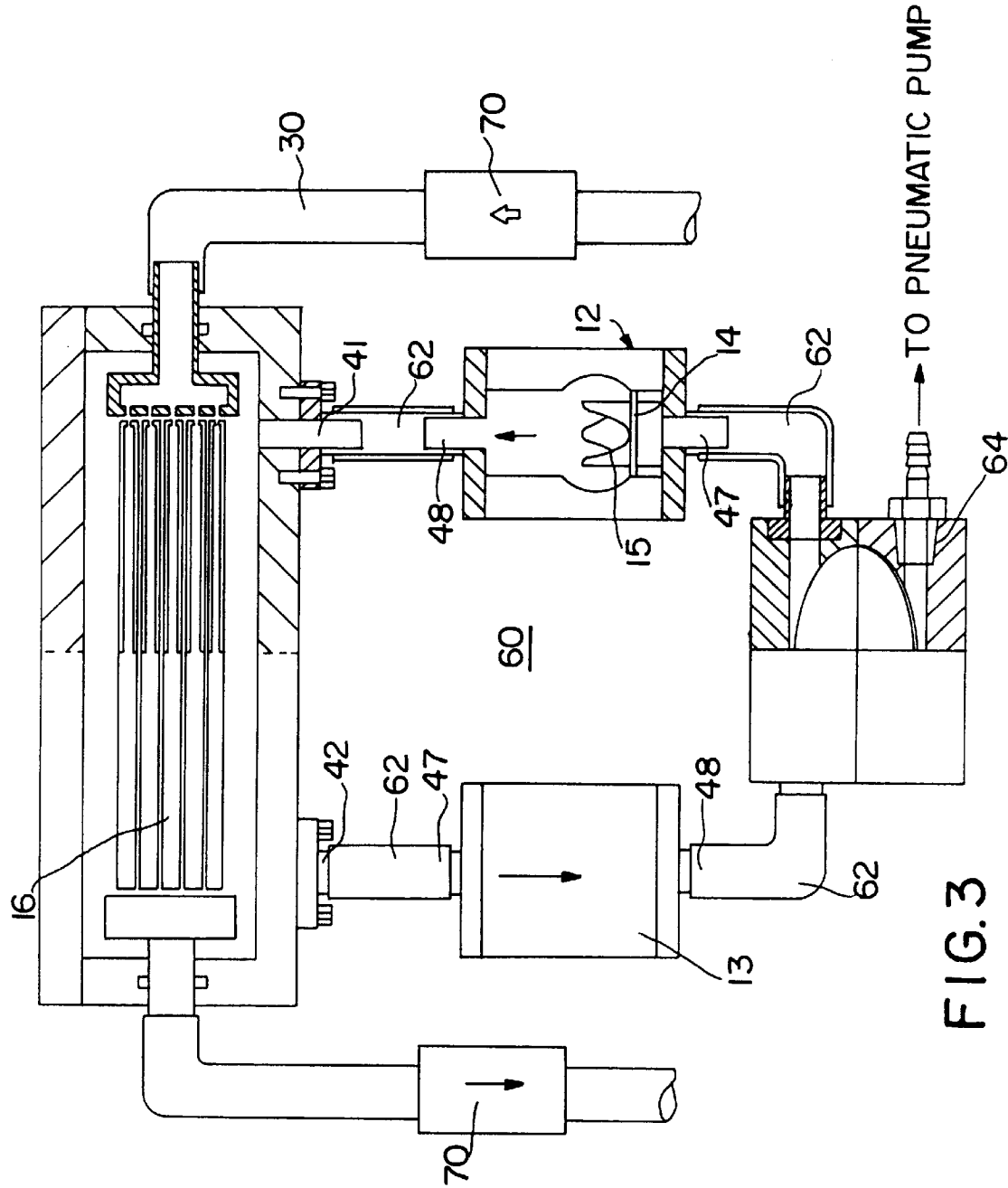


FIG. 3

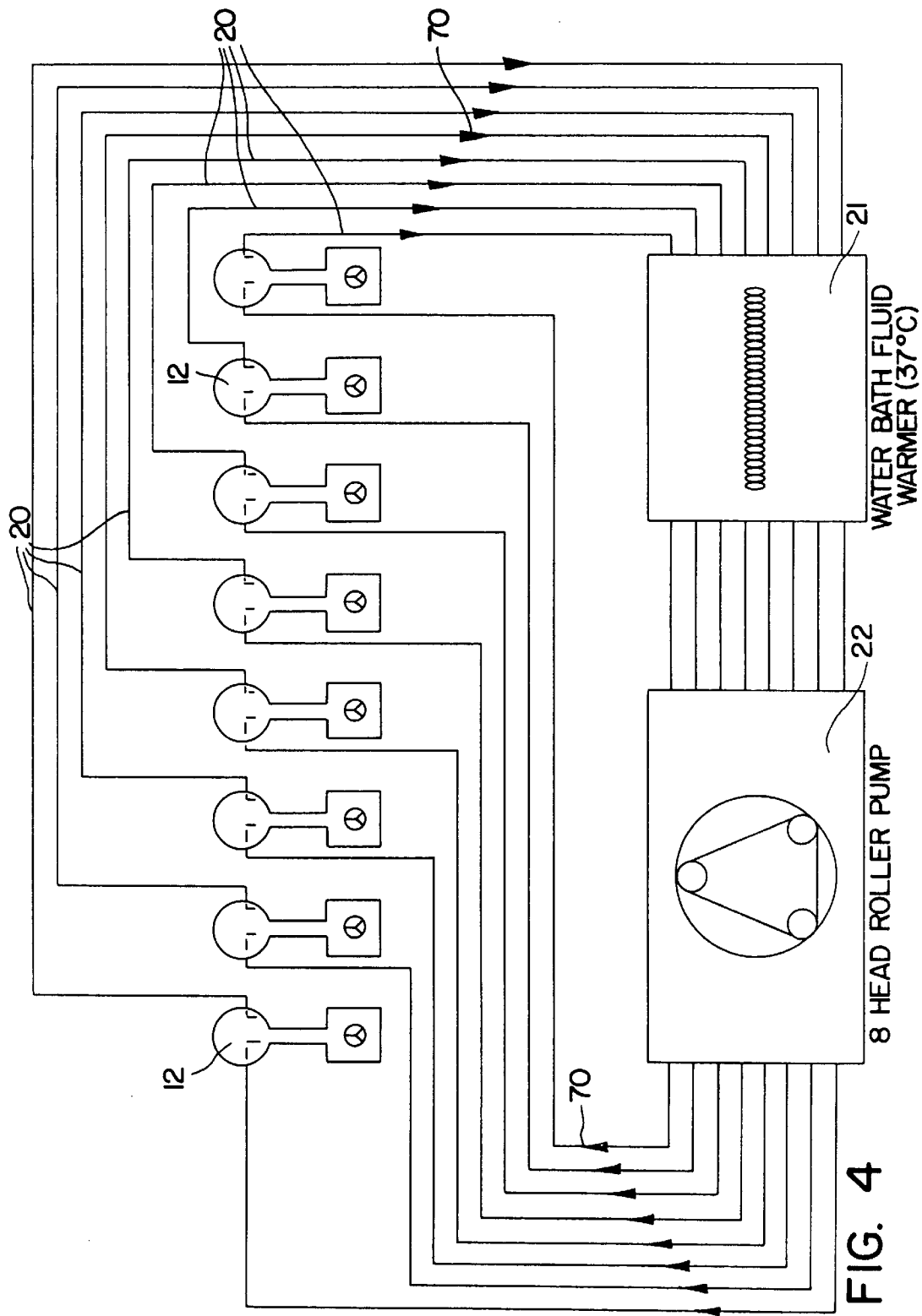


FIG. 4

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