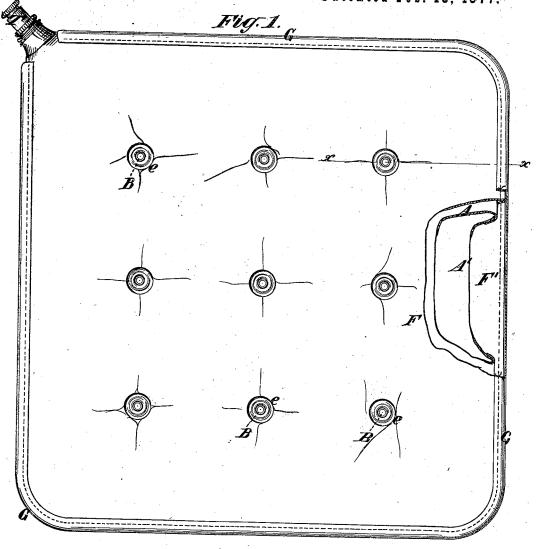
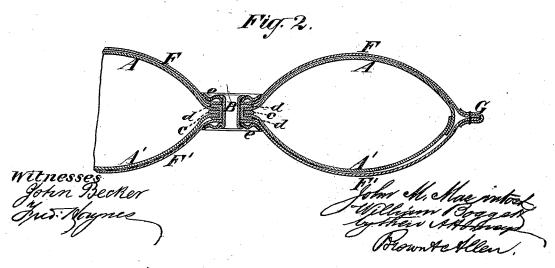
J. M. MACINTOSH & W. BOGGETT. AIR-BED

No. 187,397.

Patented Feb. 13, 1877.





UNITED STATES PATENT OFFICE

JOHN M. MACINTOSH, OF FINSBURY, AND WILLIAM BOGGETT, OF CHELSEA, ENGLAND.

IMPROVEMENT IN AIR-BEDS.

Specification forming part of Letters Patent No. 187,397, dated February 13, 1877; application filed December 27, 1876.

To all whom it may concern:

Be it known that we, JOHN M. MACINTOSH, of Wilson street, Finsbury, india-rubber manufacturer, and WILLIAM BOGGETT, of Chelsea, both in the county of Middlesex, England, have invented new and useful Improvements in Fabricating Air or Water Proof Articles, which improvements are fully set forth in the following specification, reference being had to the accompanying drawing.

The object of our invention is to fabricate cushions and other air and water proof articles by means of an inner air and water proof vessel or case, strengthened by an outer cov-

ering of other materials.

According to one method of carrying out our invention, we usually make the inner vessel by laying a sheet of india-rubber, A. on a bench, upon which we place a second sheet, A', rather smaller, for the purpose of making a secure joint by overlapping. The intended position of holes to receive metal eyelets B is then marked, at which points disks of solutioned rubber c are placed for some purposes between the two sheets, and holes are punched through them and the sheets.

For some purposes a short piece of rubber tube is placed in each hole, the ends of the tubes being turned down to prevent the escape of air or water. When so far completed, (with an opening for a valve, T, for filling with air

or water,) the vessel or case is then vulcanized in the usual manner. The outer covering F, which may consist of textile fabrics, leather, or other fit materials, with holes corresponding to those in the rubber sheets, is placed so as to envelop them. The eyelets B are then placed in the holes and fastened, so as to hold the two cases together, the edges of the outer one being sewed together.

In some cases we employ a textile fabric, made air-proof by dissolved rubber or otherwise, in place of sheet-rubber for making the

inner vessel.

In place of eyelets being employed to secure the inner and outer cases together at intervals, tabs, tufts, or other means of fastening them together may be employed.

What we claim is-

As a new article of manufacture, a bed or cushion constructed of an air or water tight vessel or case and an exterior covering or envelope, F, substantially as shown and described.

JNO. M. MACINTOSH. WILLIAM BOGGETT.

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