

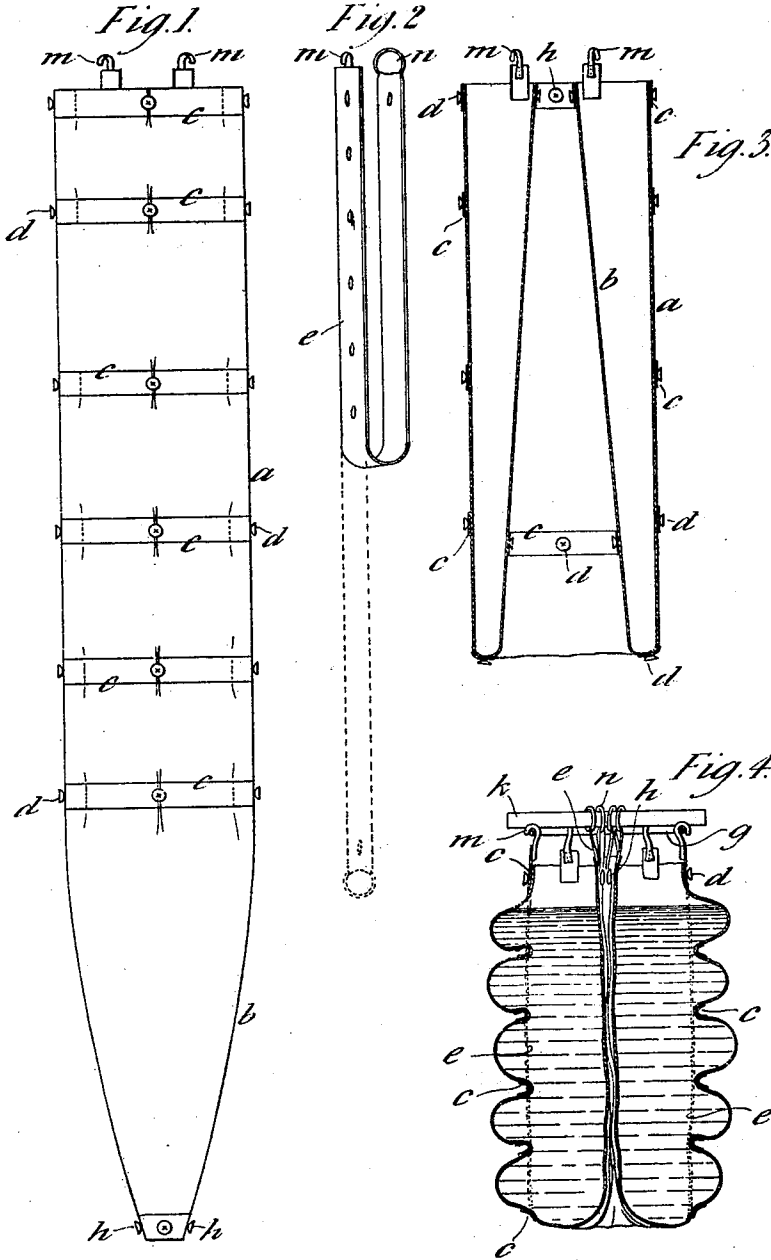
No. 689,307.

Patented Dec. 17, 1901.

E. S. HERMES.
FILTER.

(Application filed Sept. 12, 1901.)

(No Model.)



Witnesses:
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Atty

UNITED STATES PATENT OFFICE.

EDWARD S. HERMES, OF TOTTENHAM, ENGLAND.

FILTER.

SPECIFICATION forming part of Letters Patent No. 689,307, dated December 17, 1901.

Application filed September 12, 1901. Serial No. 75,204. (No model.)

To all whom it may concern:

Be it known that I, EDWARD SIEGFRIED HERMES, a citizen of England, residing at 32 Greyhound road, Tottenham, in the county of Middlesex, England, have invented a certain new and useful Improvement in Filters, (for which I have applied for a patent in Great Britain, dated February 14, 1901, No. 3,173,) of which the following is a specification.

My invention relates to a simple and cheap construction of filter, which I shall describe, referring to the accompanying drawings.

Figure 1 is a side view of the bag of which the filter is formed. Fig. 2 shows one of the straps. Fig. 3 is a section of the bag with end inverted, and Fig. 4 is a vertical section of the filter in its working condition.

I make of suitable filtering fabric a bag *a*, with a conical end *b* open at the apex, this bag being surrounded by several bands *c*, of strong tape or the like, at equal intervals apart, each band having four buttons *d* equally spaced around it. I provide four straps *e*, of strong tape or the like, which I bend in U form, each strap having along one of its limbs as many buttonholes as there are bands *c*, but at less distance apart. I invert and turn inward the conical end *b*, as shown in Fig. 3, and

to four buttons *h* at its end I button the ends of the four straps *e*, and then drawing down the bands *c*, so as to bulge the fabric between them, I button the outer limbs of the straps *e* to the bands *c*. The top of the bag is kept open by a ring *g*, to which the bag may be attached by hooks *m*, and I pass a cross-piece *k* (which may be of wood) through four rings *n*, fixed to the ends of the straps *e*.

Having thus described the nature of my said invention and the best means I know of carrying the same into practical effect, I claim—

A filter consisting of a bag having surrounding bands which are drawn toward each other by vertical straps, so as to bulge the parts of the bag between them, a conical end to the bag turned inward and upward, and straps bent to U form, the one limb of each buttoned to the bands surrounding the bag, the other limb buttoned at its end to the end of the inverted cone, substantially as described.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

E. S. HERMES.

Witnesses:

GERALD L. SMITH,
EDWARD GARDNER.