

No. 710,962.

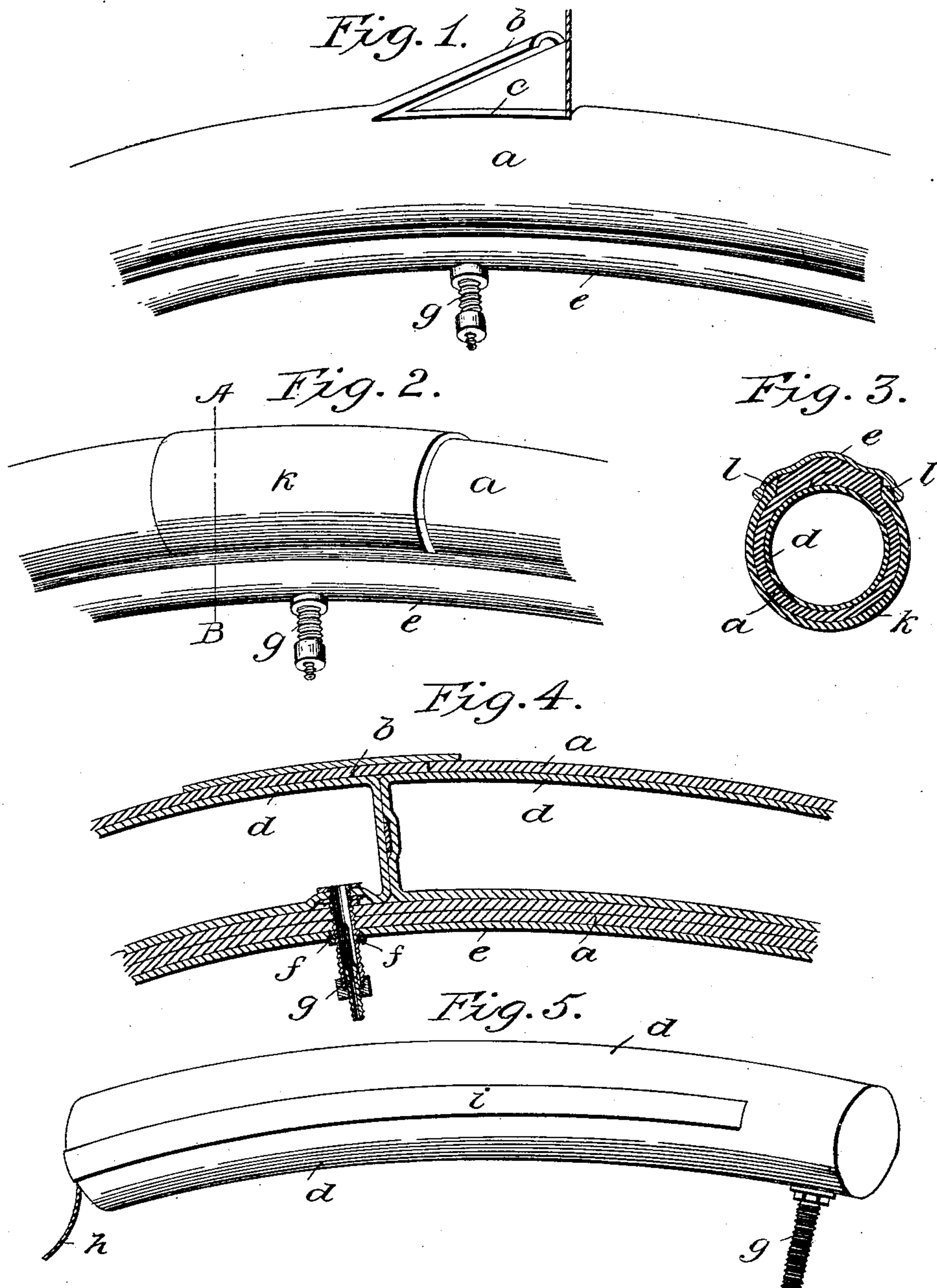
Patented Oct. 14, 1902.

R. FLEISCHER & M. REITHMAIR.

PNEUMATIC TIRE.

(Application filed Dec. 21, 1901.)

(No Model.)



Witnesses:
Rosa E. Babcock
C. D. Davis

Inventors:
Rudolph Fleischer
and
Matthias Reithmaier
by W. H. Babcock
Attorney

UNITED STATES PATENT OFFICE.

RUDOLPH FLEISCHER AND MATTHIAS REITHMAIR, OF MINDEN, GERMANY.

PNEUMATIC TIRE.

SPECIFICATION forming part of Letters Patent No. 710,962, dated October 14, 1902.

Application filed December 21, 1901. Serial No. 86,798. (No model.)

To all whom it may concern:

Be it known that we, RUDOLPH FLEISCHER and MATTHIAS REITHMAIR, subjects of the Emperor of Germany, residing at Minden, in the Kingdom of Prussia, Germany, have invented certain new and useful Improvements in Pneumatic Tires; and we declare the following to be a full, clear, and exact description of the invention.

10 The object of our present invention is a pneumatic tire consisting of a number of separate air-tubes. It has the advantage over all hitherto known constructions that instead of having many separate air-cells it has a few
15 air-tubes which can be taken in and out of the tire-case by means of openings in the same which can be opened or closed at will.

The invention is described in the accompanying drawings.

20 Figures 1 and 2 show a portion of the tire with open and closed flap; Fig. 3, a section in the line A B of Fig. 2; Fig. 4, a longitudinal section through a portion of the pneumatic tube; Fig. 5, an air-tube.

25 The construction is as follows: A number of flaps *b* are cut in the tire-case *a*, one for each air-tube, and separated by distances corresponding to the number of tubes. Through the openings *c* hereby formed the air-tubes *d*
30 are introduced before being pumped up. Opposite the openings *c* in the case are openings *f* in the felly *e* to admit the air-valves *g*. The air-tubes *d* are provided with a lace *h*, which is attached to a band *i*, fixed to the
35 tube. The lace serves to introduce the air-tube into the case before pumping it up. By

this operation the lace *h* is introduced, and the next flap *b* is opened and the lace drawn out, whereby the air-tube *d* is drawn in. Then the valve *g* is set in the opening *f* in the felly *e*. Finally, the lace is also pressed into the space within the case. The flaps *b* are closed by means of a piece of material *k*, the longitudinal edges *l* of which are thickened. This is laid over the closed flap *b* before the tube is pumped up, so that the thickened edges come within the rims of the felly *e*. When the tube is pumped up, the case is consequently stretched out, with the result that the thickened edges *l* are pressed very strongly against the rims and the flaps *b* thereby kept firmly closed.

Having now described our invention, what we claim is—

A pneumatic tire consisting of separate air-tubes and distinguished from all other pneumatic tires by having a case *a* in which flaps *b* are cut at distances corresponding to the number of tubes, through the flap-openings *c* air-tubes *d* can be introduced by means of laces *h* into the space within the case, which is closed by a piece of material *k* which is laid over the flap *b* and the thick edges *l* of which are grasped by the rims of the felly *e*.

In witness whereof we have hereunto set our hands in presence of two witnesses.

RUDOLPH FLEISCHER.
MATTHIAS REITHMAIR.

Witnesses:

OTTO KÖNIG,
F. A. RITTERSHAUS.