

(No Model.)

R. ZIMMERMANN.
FAN.

No. 539,208.

Patented May 14, 1895.

Fig: 1.

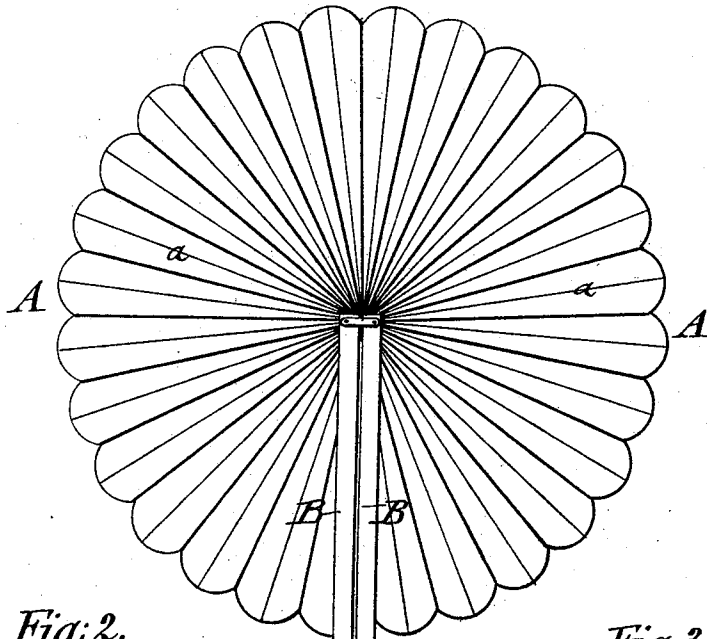
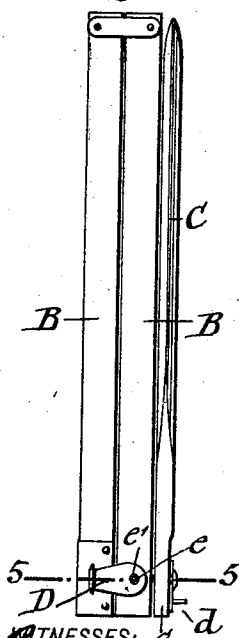


Fig: 2.



WITNESSES:
George H. Harkel
Henry Patch

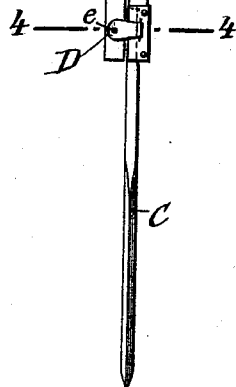


Fig: 4.

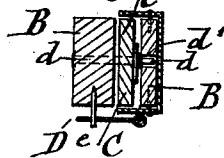


Fig: 5.

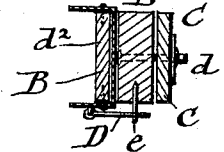
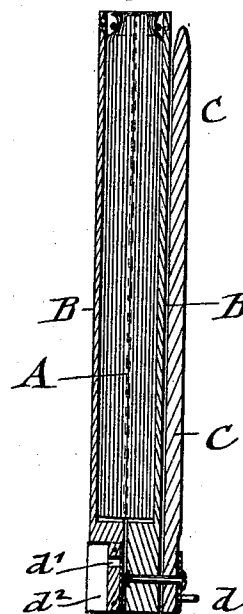


Fig: 3.



INVENTOR
Rudolph Zimmermann
BY *George H. Harkel*
ATTORNEYS.

UNITED STATES PATENT OFFICE.

RUDOLPH ZIMMERMANN, OF NEW YORK, N. Y., ASSIGNOR TO HERMAN SCHEUER, OF SAME PLACE.

FAN.

SPECIFICATION forming part of Letters Patent No. 539,208, dated May 14, 1895.

Application filed March 6, 1895. Serial No. 540,739. (No model.)

To all whom it may concern:

Be it known that I, RUDOLPH ZIMMERMANN, a citizen of the United States, residing in the city, county, and State of New York, have invented certain new and useful Improvements in Fans, of which the following is a specification.

This invention relates to certain improvements in fans of that class in which a web with radial folds, is used that is folded up into a box formed of end-strips to one of which a handle is pivoted that can be folded alongside of the fan for carrying the latter in the pocket or extended when the fan is open for use; and the invention consists of a fan composed of a web of flexible material provided with radial folds, box-shaped strips attached to the ends of the web and pivotally connected at their inner ends, and a handle that is pivoted to the outer end of one of the box-shaped strips and adapted to be folded alongside of the same, while the outer end of the other strip is provided with a recess forming a socket for the handle, and with means for locking the strips and handle together when the fan is in open or closed position.

In the accompanying drawings, Figure 1 represents a front elevation of my improved fan, showing the same in open position ready for use. Fig. 2 is a side elevation of the same, showing the same in folded position ready to be carried in the pocket. Fig. 3 represents vertical longitudinal sections, respectively on lines 4 4, Fig. 1, and 5 5, Fig. 2.

Similar letters of reference indicate corresponding parts.

Referring to the drawings,—A represents a web which is made of a single piece of flexible material, that is provided with a series of radiating folds *a* so that it can be opened in the position shown in Fig. 1, or folded in the position shown in Fig. 2. The end-folds of the web A are attached to box-shaped strips B, B, of metal, wood or other suitable material, which are pivotally connected with each other at their inner ends so as to be swung on said pivots into open or closed position for extending the web into disk-shape or folding it up within the box-shaped strips so as to protect the web when the fan is carried in the pocket.

To the outer end of one strip B, is pivoted a handle C which swings in the plane of the strip B either alongside of the strip B or into line with the same. A fixed pin *d* near the pivoted end of the handle C registers, when the handle is swung into extended position in line with its strip B, with a hole *d'* arranged in a recess or socket *d*², arranged at the end of the other strip B so that the handle is thereby firmly held in extended position. This registering of the handles takes place when the web is in extended position in which position the strips *a* but and are arranged back to back. The pivoted shank of the handle C is then located in the recess or socket *d*² of the other end-strip B, as shown clearly in Figs. 1 and 4. When the handle is in this position, the ends of the strips B have to be connected so as to permit the use of the fan. This locking together is accomplished by a hinged-plate D which is pivoted to the strip B, which is provided with the socket *d*², said hinged plate being provided with a hole *e'* for engaging a stationary pin *e* on the outer end of the strip B to which the handle C is pivoted. After the handle is moved into extended position and the fan placed in open position, the strips B and the handle are locked together by the clasp-plate D so that the fan can be used for fanning in the regular manner. When the fan is to be folded up, the clasp-plate D is removed from the pin *e*, the web is next folded up in the box-shaped strips, which are placed together as shown in Fig. 2, and the handle is swung on its pivot alongside of its strip, while the clasp-plate D is swung in the opposite direction so as to engage again the pin *e*, whereby the strips B B, and the fan are locked together and ready for being carried in the pocket.

My improved folding-fan requires only one swinging handle, instead of the two stationary handles heretofore in use, whereby its construction is simplified and the size of the fan considerably reduced when folded up so that it can be more conveniently carried in the pocket, while it performs when extended, all the functions of the fans of this class.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. A fan, consisting of a web cut from a single piece of flexible material and formed of a series of radiating folds, box-shaped strips applied to the ends of said web and
5 connected pivotally at their inner ends, a swinging handle pivoted to the outer end of one of the strips, a recess or socket formed at the outer end of the other strip for receiving the shank of the swinging handle, and
10 means for locking the strips together when the fan is opened for use or folded up, substantially as set forth.

2. A fan, composed of a web formed of a single piece of flexible material and provided
15 with a series of radiating folds, box-shaped strips attached to the ends of said web and pivotally connected at their inner ends, a swinging handle pivoted to the outer end of

one of the strips and provided with a pin, a recess or socket in the outer end of the other 20 strip, said socket having a hole registering with the pin on the handle, and a clasp-plate that is hinged to the outer end of the strip and provided with a socket and adapted to engage a pin on the end of the other strip so 25 as to lock said end-strips together when the fan is in opened or closed position, substantially as set forth.

In testimony that I claim the foregoing as my invention I have signed my name in pres- 30
ence of two subscribing witnesses.

RUDOLPH ZIMMERMANN.

Witnesses:

PAUL GOEPEL,

GEORGE W. JAEKEL.