

MICKAIL GREGEN,

IMPD. BATTLE DOOR.

117518

PATENTED AUG 1 1871

Fig. 2.

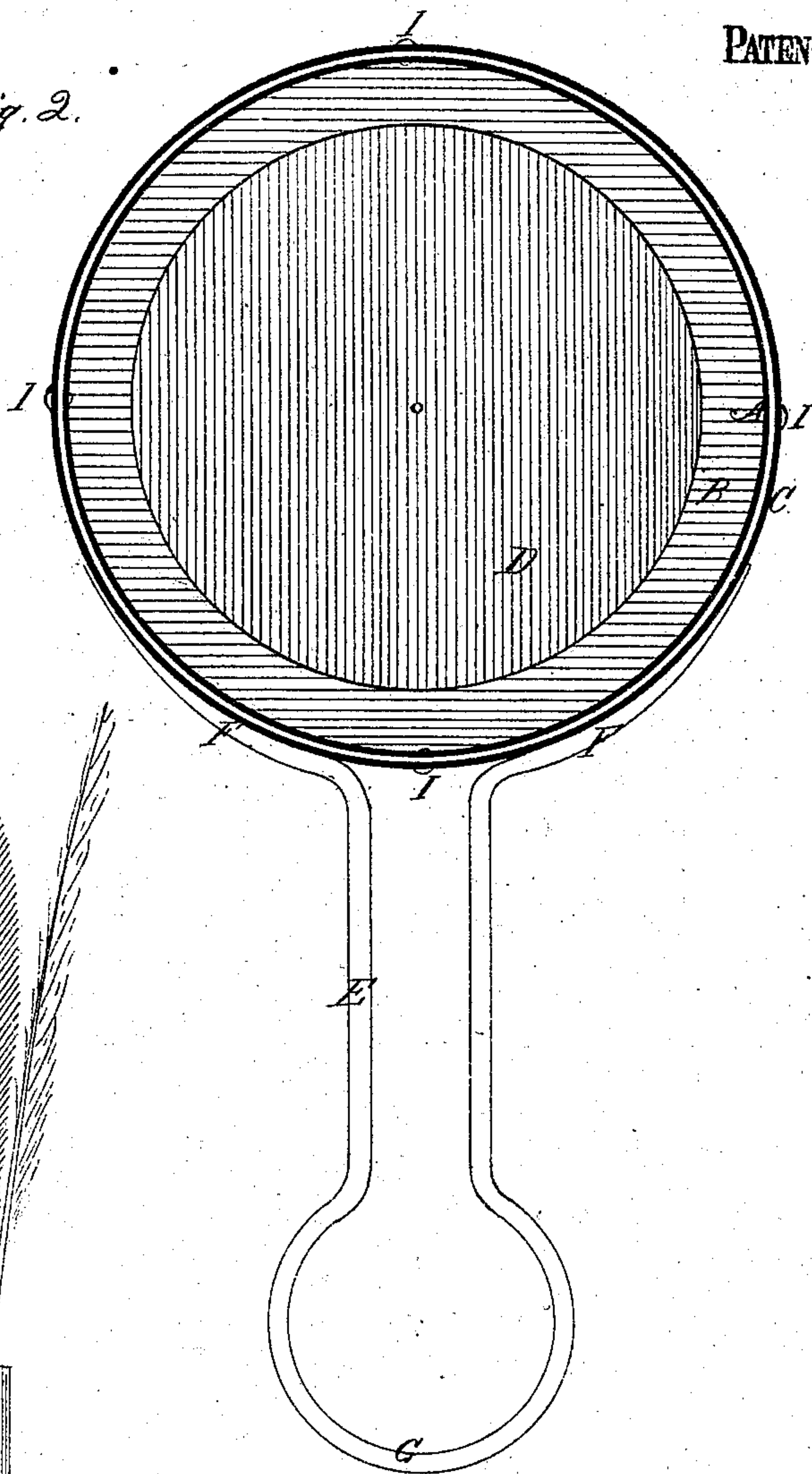


Fig. 3.

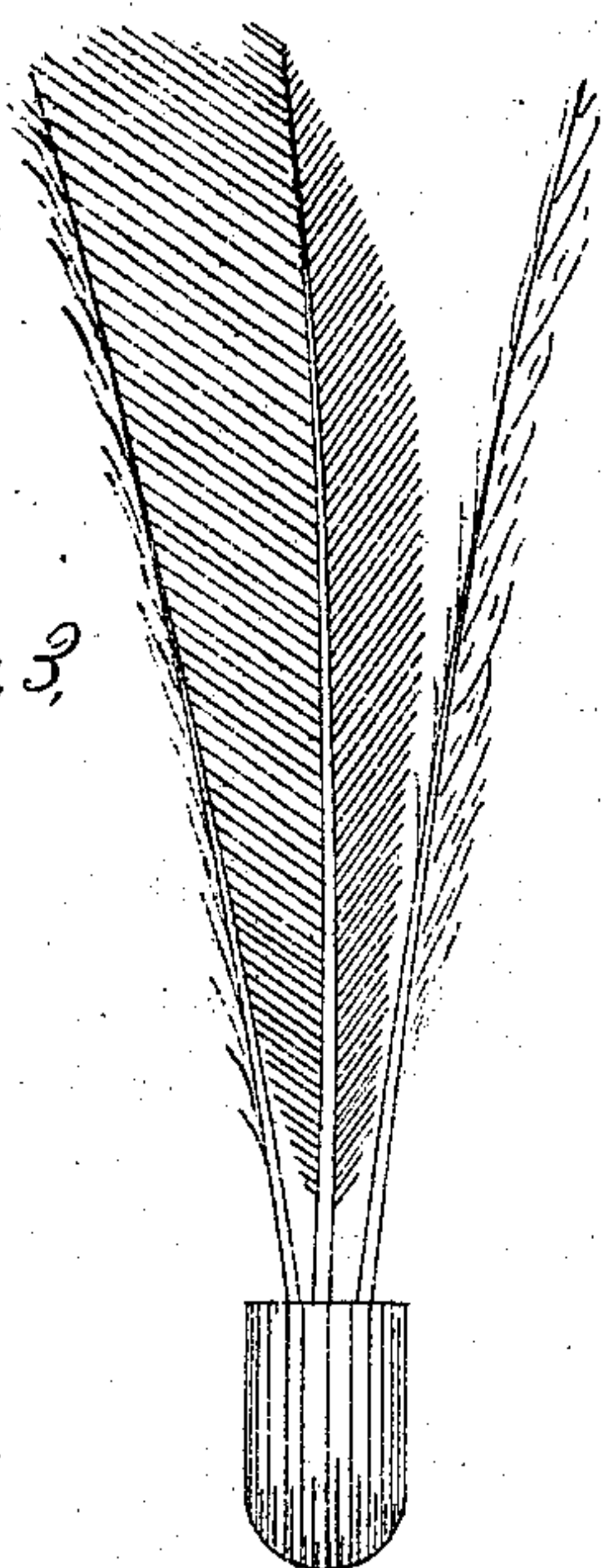
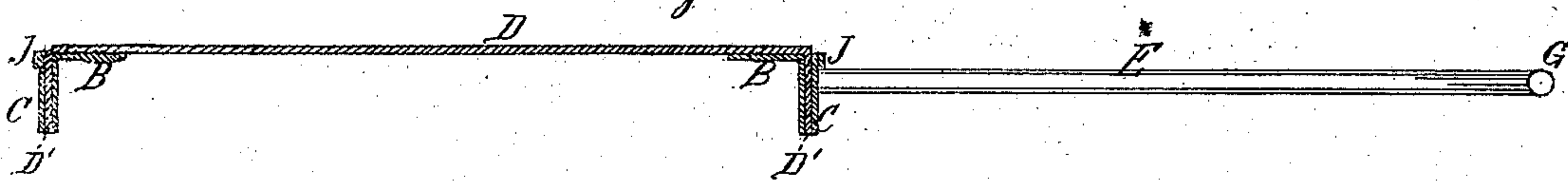


Fig. 1.



Witnesses.

R. P. Saunders  
Samuel Smith

Inventor.

Mickail Gregen  
By G. A. Chapin  
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# UNITED STATES PATENT OFFICE.

MICKAIL CREGEN, OF CHICAGO, ILLINOIS, ASSIGNOR TO HIMSELF AND  
ANDREW DAMEDION, OF SAME PLACE.

## IMPROVEMENT IN BATTLEDOORS.

Specification forming part of Letters Patent No. 117,518, dated August 1, 1871.

*To all whom it may concern:*

Be it known that I, MICKAIL CREGEN, of Chicago, in the county of Cook and State of Illinois, have invented an Improved Battledoor or Child's Toy; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing and letters marked thereon, in which—

Figure 1 is a vertical section of my improved battledoor; Fig. 2, a top view of the same; Fig. 3, the shuttle-cock.

The nature of the present invention consists in the novel construction of the battledoor, it consisting of an inner frame, which is made of sheet metal, and over which the leather or canvas is stretched, and of an outer clamping-band, which holds the leather to the frame, and which is provided with a handle made of bent wire, as the whole is hereinafter fully described and shown.

A represents the frame, which is a rim of plate metal, provided with a flange, B, which forms a smooth surface for the leather or canvas D to bear upon without being cut or broken at the angle where the said leather or canvas is formed over the periphery of the frame A. The leather is held to the frame A by means of a band or hoop, which

is also made of metal and turned over at J, Fig. 1, so as to have a double thickness and give additional strength, rivets I being used to hold the band or hoop to the frame A. A handle, consisting of wire and having parallel sides E, a circular termination, G, and prongs F, is soldered to the band or hoop C, which completes the construction of the device.

The present method of constructing battle-doors consists in making a frame of a single piece of wood and covering both of the sides with leather, but as the wood shrinks and swells so as to both loosen and overstretch the leather, it is evident that the one by me invented is a very superior article, being very cheap and durable, and possessing suitable elasticity to bat the shuttlecock in Fig. 3.

I claim—

The band or hoop C, provided with a bent-wire handle, E C F, in combination with the frame A and leather D, as described and shown.

MICKAIL CREGEN.

Witnesses:

G. L. CHAPIN,  
F. COOK.