

(No Model.)

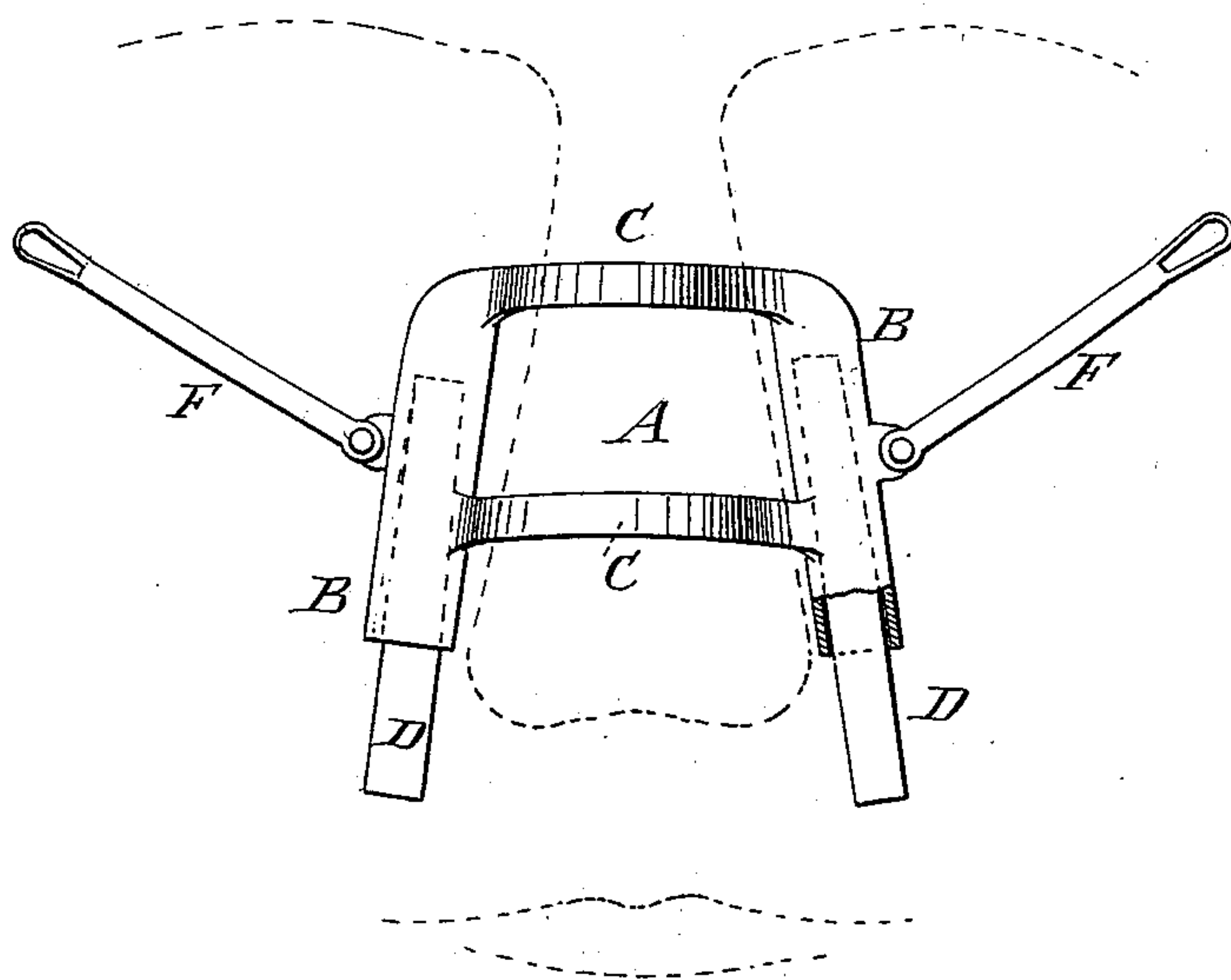
E. STODDARD.

Magnetic Nose Guard for Steel Grinders.

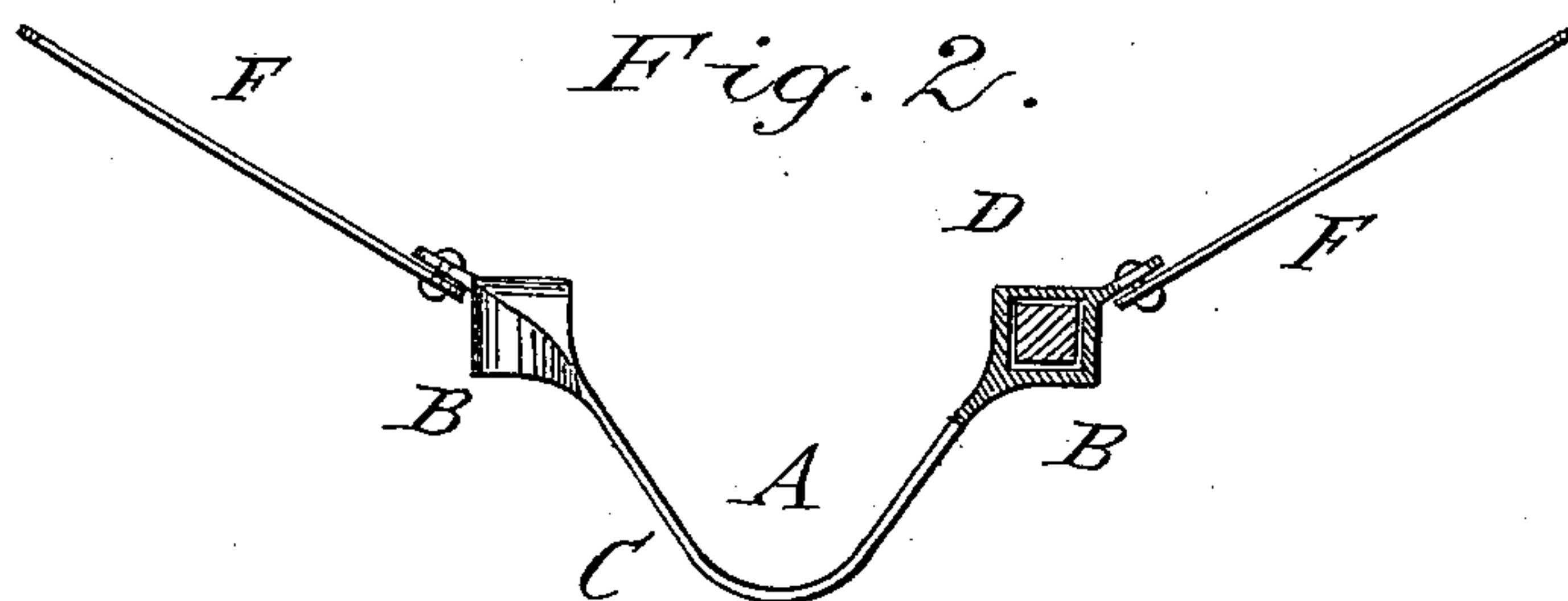
No. 233,891.

Patented Nov. 2, 1880.

*Fig. 1.*



*Fig. 2.*



WITNESSES:

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# UNITED STATES PATENT OFFICE.

ELIAKIM STODDARD, OF POLAND, OHIO.

## MAGNETIC NOSE-GUARD FOR STEEL-GRINDERS.

SPECIFICATION forming part of Letters Patent No. 233,891, dated November 2, 1880.

Application filed March 8, 1880. (No model.)

*To all whom it may concern:*

Be it known that I, ELIAKIM STODDARD, of Poland, in the county of Mahoning and State of Ohio, have invented a new and Improved Lung-Protector, of which the following is a specification.

The object of my invention is to provide an improved device for protecting the lungs of persons who are exposed to the inhalation of iron or steel filings or dust.

The invention consists of a frame adapted to be placed onto the nose and held in place by a ribbon or cord passing around the head, and having two projecting magnets which pass down below the nostrils, so that all particles of iron or steel drawn toward the nose by the breath will be attracted and held by the magnets, from which they can be removed when desired.

In the accompanying drawings, Figure 1 is a front elevation of my improved lung-protector. Fig. 2 is a top view and partial horizontal sectional view of the same.

Similar letters of reference indicate corresponding parts.

The frame A consists of two side bars, B B, and two curved transverse bars, C C, and may be made of metal, rubber, celluloid, or any other suitable material. Two magnets, D D, fit into cavities in the side bars, B B, if the frame A is not made of metal, or are made integral with the said frame if the same is made of steel or metal. The curved transverse bars C C are arranged as much as possible to adapt themselves to the shape of the human nose.

The ribbon or band for holding the frame A

in position is attached to the ends of the pivoted arms F F. The arms F F can be increased in length and provided with spring ends, so as to hold the frame A in position in the same manner as spectacles are held. If the frame is to be very light, it is made of rubber, and the magnets are inserted as shown; but if a strong heavier frame is required, it is preferably made of steel covered with rubber.

If the within-described instrument is worn all the minute dust and filings of iron and steel that are drawn toward the nose by the breath are attracted by the magnets and adhere to the same, and are thus prevented from passing into the lungs. Dangerous diseases are thus prevented by this simple and convenient instrument.

The magnets may be curved to pass under the nostrils, or a magnet may be suspended from the frame A in a horizontal position under the nostrils.

The frame-work does not bear upon the nose, but runs parallel therewith, thus avoiding pressure with the bows, which are only employed to keep the tubes B in their places. Thus the air passes freely around the nose, avoiding perspiration.

What I claim as new is—

The frame A, consisting of the two side bars, B B, having cavities to receive the two magnets, the transverse bows C C, and pivoted arms F F, as shown and described.

ELIAKIM STODDARD.

Witnesses:

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