

No. 829,570.

PATENTED AUG. 28, 1906.

E. G. CAUGHEY.
MAGNETIC DOLLY BAR.
APPLICATION FILED NOV. 20, 1905.

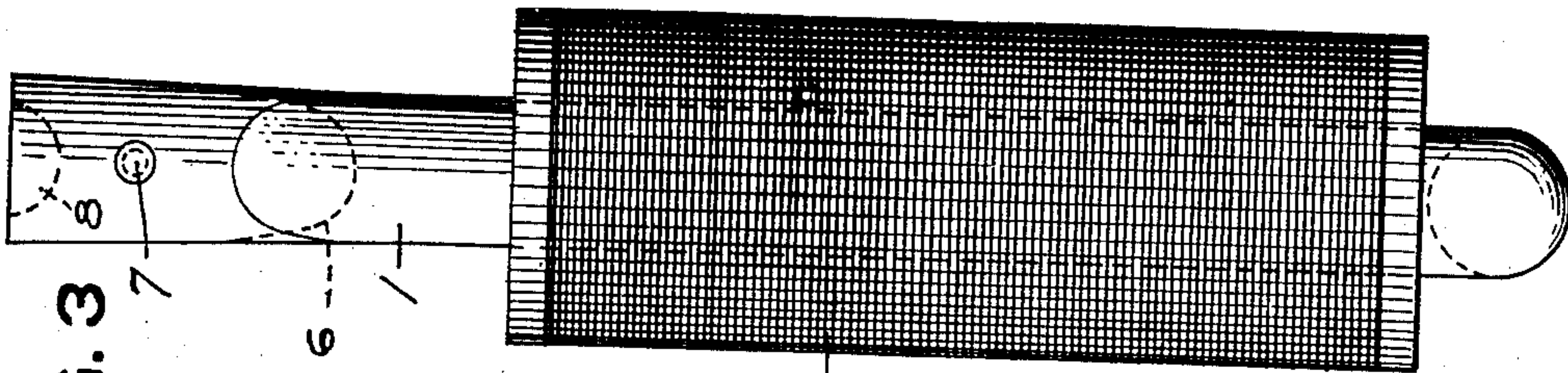


FIG. 3

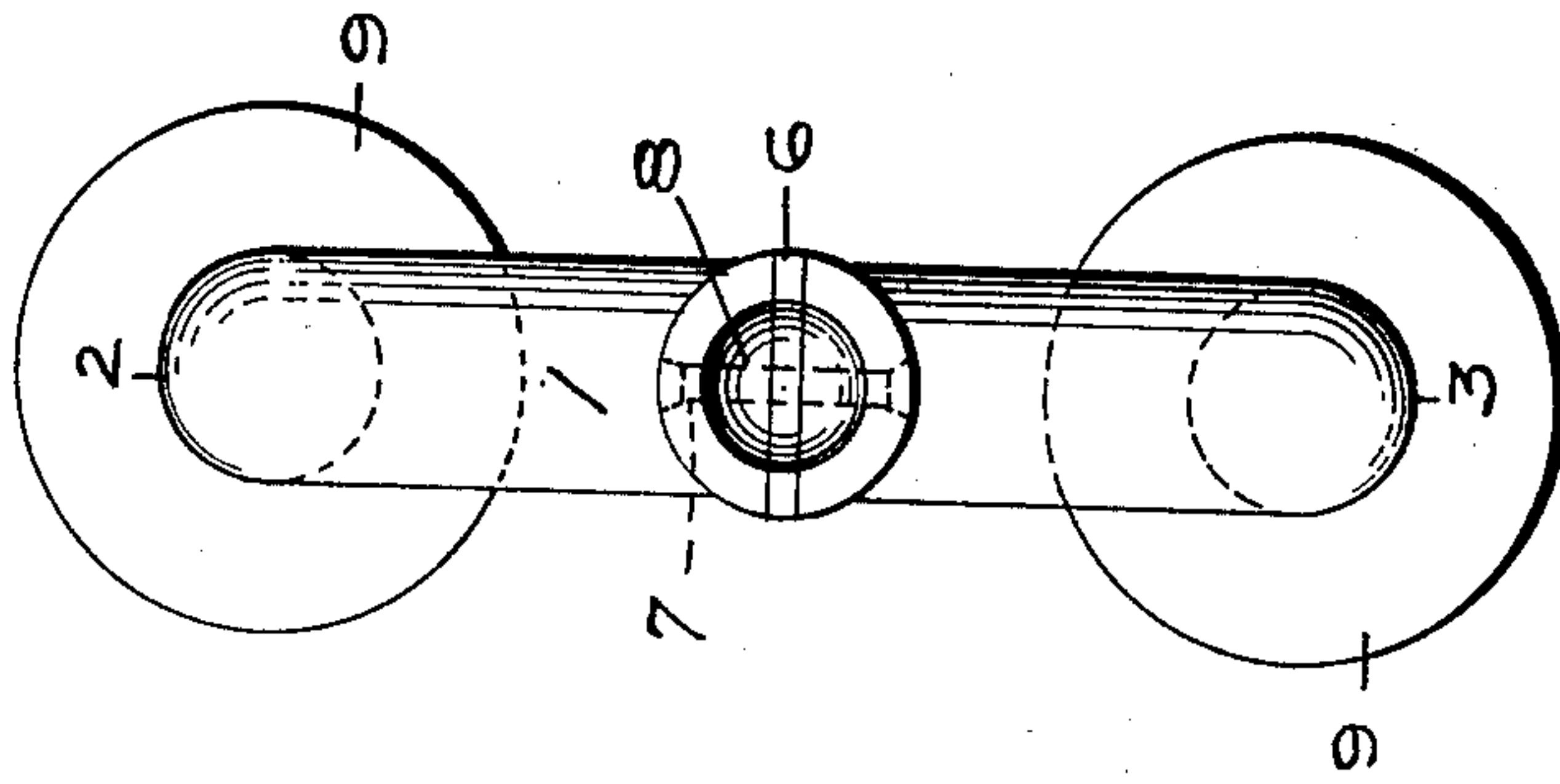


FIG. 2

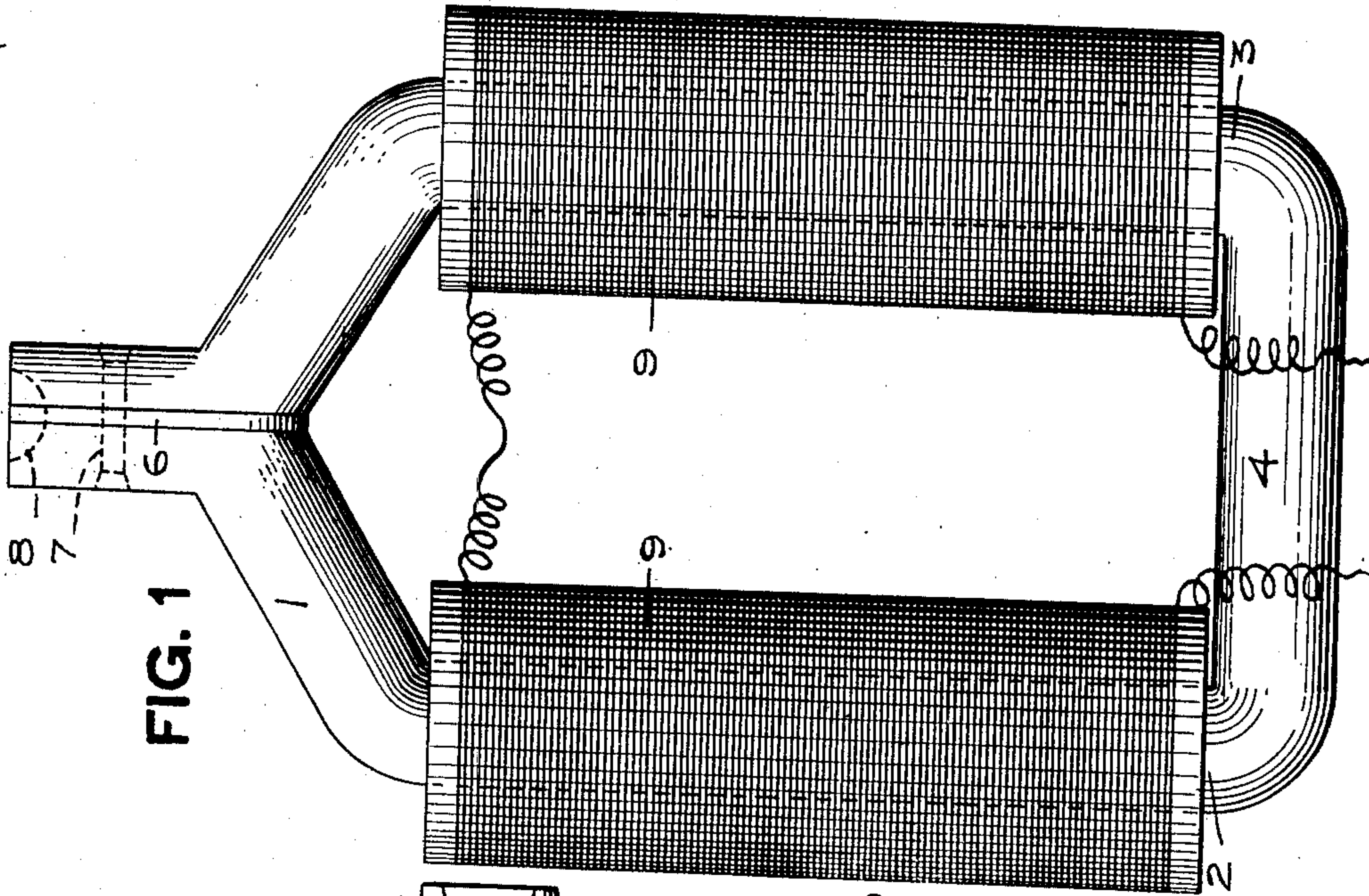


FIG. 1

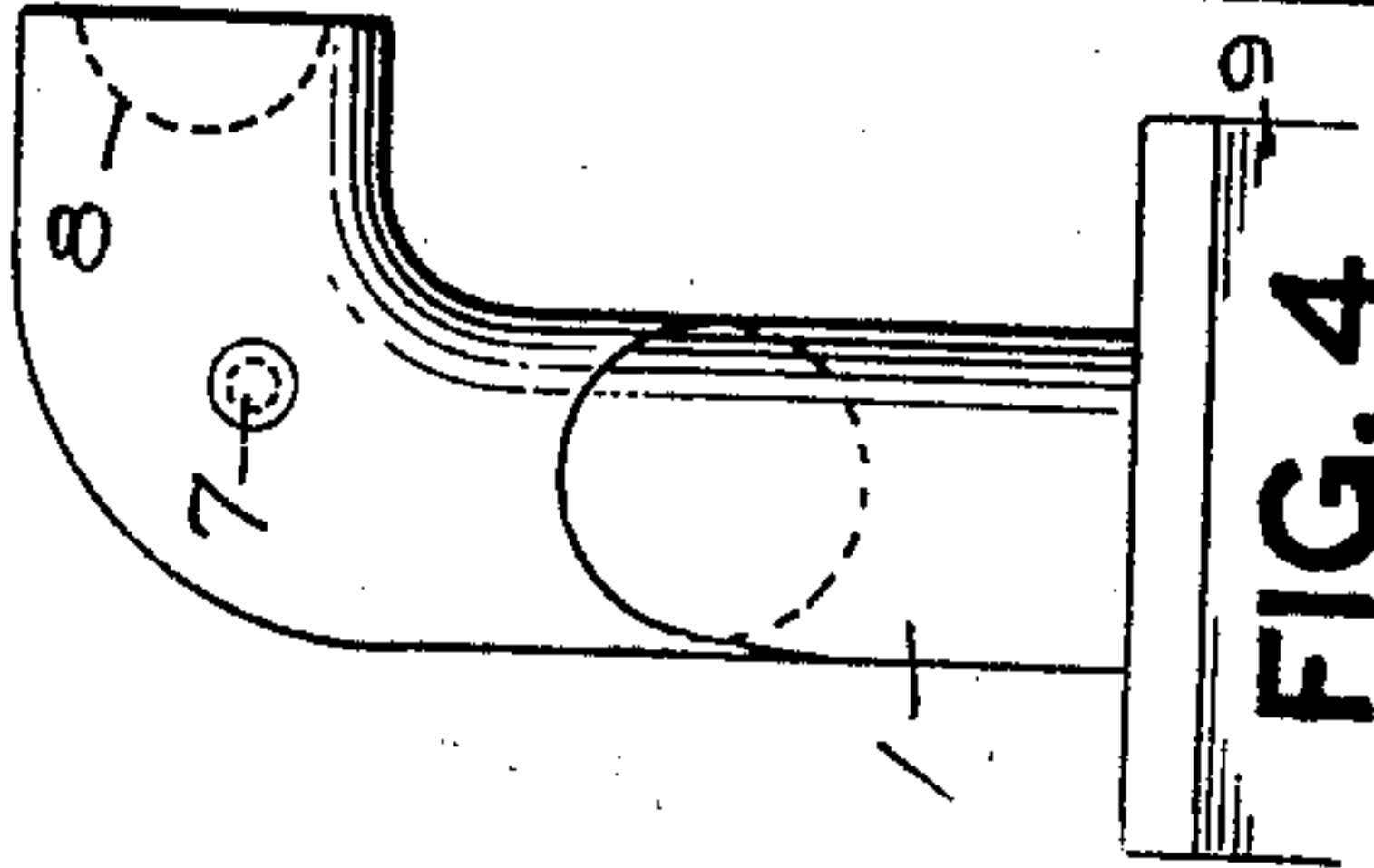


FIG. 4

WITNESSES.
J. R. Keller
Robert C. Totten

INVENTOR.
Edmund B. Caughey
By Kay Totten & White
attorneys

UNITED STATES PATENT OFFICE.

EDWARD G. CAUGHEY, OF HUNTINGTON, WEST VIRGINIA.

MAGNETIC DOLLY-BAR.

No. 829,570.

Specification of Letters Patent.

Patented Aug. 28, 1906.

Application filed November 20, 1905. Serial No. 288,272.

To all whom it may concern:

Be it known that I, EDWARD G. CAUGHEY, a resident of Huntington, in the county of Cabell and State of West Virginia, have invented a new and useful Improvement in Magnetic Dolly-Bars; and I do hereby declare the following to be a full, clear, and exact description thereof.

This invention relates to that class of devices known as "dolly-bars" or "bucker-ups," and more especially to magnetic devices of this character.

The object is to provide a magnetic dolly-bar or similar device which is simple in construction and efficient in operation.

The invention consists in the arrangement of parts hereinafter described and claimed.

In the accompanying drawings, Figure 1 is a side view of my improved device. Fig. 2 is an end view of the same. Fig. 3 is an edge view of the same, and Fig. 4 is a detail view showing a modification.

This device is exceedingly simple, comprising an electromagnet having a core so bent that the two poles are in juxtaposition and provide a seat for the rivet or other article to be held. As shown, the core-bar 1 has the limbs 2 and 3, which are substantially parallel and united at one end by the connecting-piece 4, while the free ends are bent so as to bring them into juxtaposition and preferably are flattened, as shown, so as to come quite close together. These ends are magnetically insulated from each other, such as by introducing between the same a plate 6 of brass or other magnetic insulating material. The two ends will be united in any suitable manner, such as by means of the rivet 7, which also may be of non-magnetic metal. These pole-pieces provide the seat for the rivet or other article to be held, such as the concave depression 8. This core will be provided with a suitable electro coil or coils, the drawings showing two coils 9, one on each of the limbs of the core. These coils are formed on wooden or other suitable spools.

Fig. 4 shows a modification in which the pole-pieces are bent to one side, so as to present the seat 8 sidewise, as may be necessary to reach places impossible of access with a straight tool.

In the use of my device, the end thereof will be held against the girder or other metal structure which is to be riveted, with the cavity 8 containing the head of the rivet. The electromagnets will be energized, thus creating a strong magnet flux at the pole-pieces which must flow through the girder or other structure, being prevented from crossing straight over by the brass plate 6. Consequently the device will freeze to the girder with great strength.

The employment described is very simple and cheap of construction, cannot be injured or get out of operation in use, the end portion thereof is of small size, so that it can be used in very restricted places, and effectively performs its work.

What I claim is—

1. A magnetic rivet-holder or the like, comprising an electromagnet having its two poles in juxtaposition, but magnetically separated from each other, and provided with a seat for the rivet.

2. A magnetic rivet-holder comprising an electromagnet having its two poles in juxtaposition, but separated by a body of non-magnetic metal, and providing a seat for the rivet.

3. A magnetic rivet-holder comprising a bar having two limbs whose free ends are magnetically separated from each other and bear a seat for the rivet, and a magnet-coil on said bar.

4. A magnetic rivet-holder comprising a bar having two substantially parallel limbs with their free ends in juxtaposition, but magnetically separated, and providing a seat for the rivet, and a magnet-coil on each limb.

5. A magnetic rivet-holder comprising a bar having two substantially parallel limbs whose free ends are flattened and brought into juxtaposition and providing a seat for the rivet, a brass or similar plate interposed between the flattened ends of said limbs, and a magnet-coil on each of said limbs.

In testimony whereof I, the said EDWARD G. CAUGHEY, have hereunto set my hand.

EDWARD G. CAUGHEY.

Witnesses:

GEO. I. NEAL,
T. L. CAUGHEY.