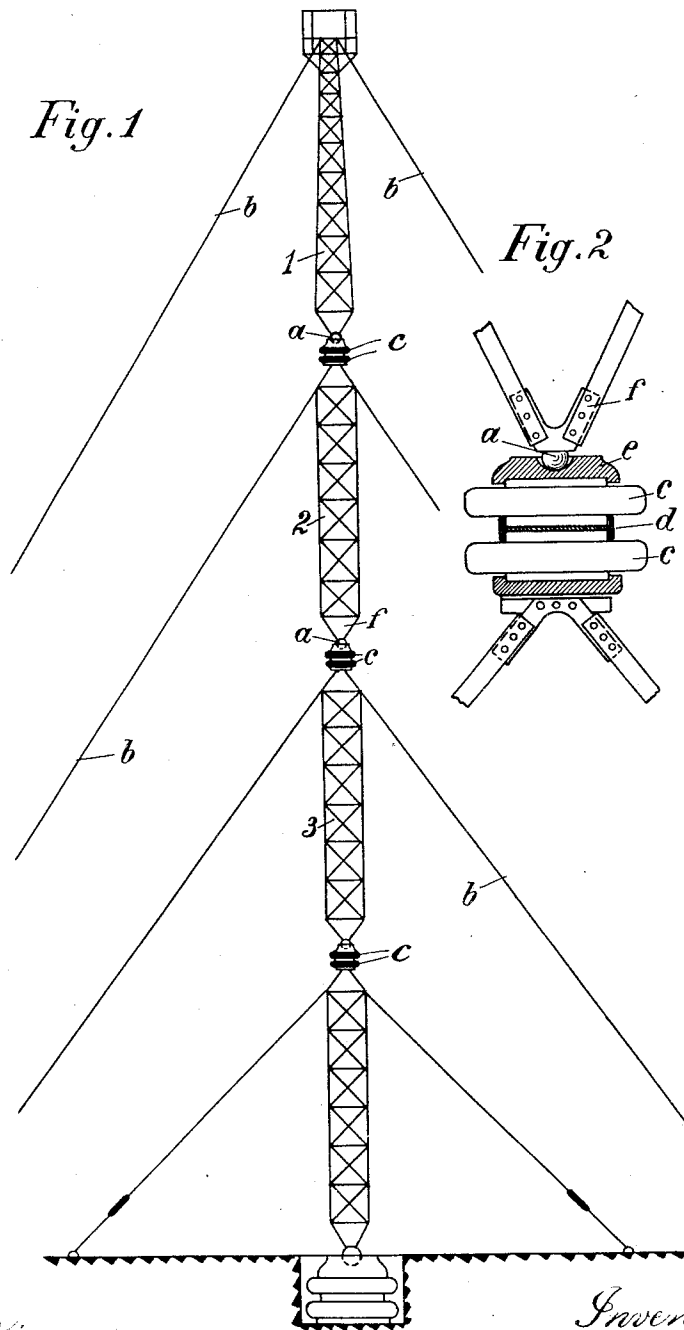


F. G. F. BRÄCKERBOHM.
 MAST FOR RADIOTELEGRAPHY.
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1,034,760.

Patented Aug. 6, 1912.



Witnesses:
 D. T. Stanley.
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UNITED STATES PATENT OFFICE.

FRIEDRICH GEORG FRANZ BRÄCKERBOHM, OF WILHELMSRUH, NEAR REINICKENDORF, GERMANY.

MAST FOR RADIOTELEGRAPHY.

1,034,760.

Specification of Letters Patent.

Patented Aug. 6, 1912.

Application filed February 14, 1912. Serial No. 678,146.

To all whom it may concern:

Be it known that I, FRIEDRICH GEORG FRANZ BRÄCKERBOHM, a subject of the German Emperor, and residing at Wilhelmsruh, near Reinickendorf, Germany, have invented certain new and useful Improvements in Masts for Radiotelegraphy, of which the following is a specification.

My invention relates to iron masts for radiotelegraphy.

It has been found that the girder masts erected at large central stations for radiotelegraphy for suspending the transmitting and receiving aerials exercise a certain prejudicial influence on the telegraphic process in spite of their being insulated from the ground, and that this injurious action has increasingly increased with the constant increase in height of such masts.

A primary object of my invention is to provide means which not only obviate this defect but enable iron masts of any desired height to be used. It is to be understood that in making such masts an iron lattice-girder construction will be employed both on the ground of strength and also for economic reasons.

The girder mast forming the subject-matter of my invention is characterized by its being not only subdivided in a manner well-known in itself and by its parts being electrically insulated from one another likewise in a manner well-known in itself, but by these individual parts being placed one above another and connected by an articular connection, *e. g.* a ball-bearing, a tangential tilting bearing, swing support, or the like, resting on the insulation of the joint, and each part being held independently by means of stay wires insulated in well-known manner from the ground.

One illustrative embodiment of my invention is represented by way of example in the accompanying drawing, wherein:—

Figure 1 is an elevation showing a girder mast comprising several parts connected by ball-bearings, and Fig. 2 shows a ball-bearing on an enlarged scale.

Referring to the drawing, the subdivided mast comprises the parts 1, 2 and 3, each of which rests on a ball-bearing *a* and is held in position by suitably tensioned stay wires *b* insulated in known manner from the ground.

Fig. 2 shows one ball-bearing and the appertaining insulation, known in itself, consisting of a plurality of superposed glass plates *c* secured from shifting laterally by iron rings *d* embracing them. The base-plate *e* for the ball, on which the suitably shaped base *f* of the next higher part of the masts rests, rests on and suitably embraces the top glass plate.

I claim:—

1. The combination of a subdivided girder mast comprising a plurality of insulated articular connections connecting the parts of the mast, and stay wires insulated from the ground attached to each part of the mast.

2. In a subdivided vertical-girder mast, the combination, with one vertical part of the mast, of insulation resting thereon, a ball on said insulation, another vertical part of the mast on said ball, and stay wires attached to said parts of the mast.

In testimony whereof, I affix my signature in the presence of two witnesses.

FRIEDRICH GEORG FRANZ BRÄCKERBOHM.

Witnesses:

HENRY HASPER,
WOLDEMAR HAUPT.