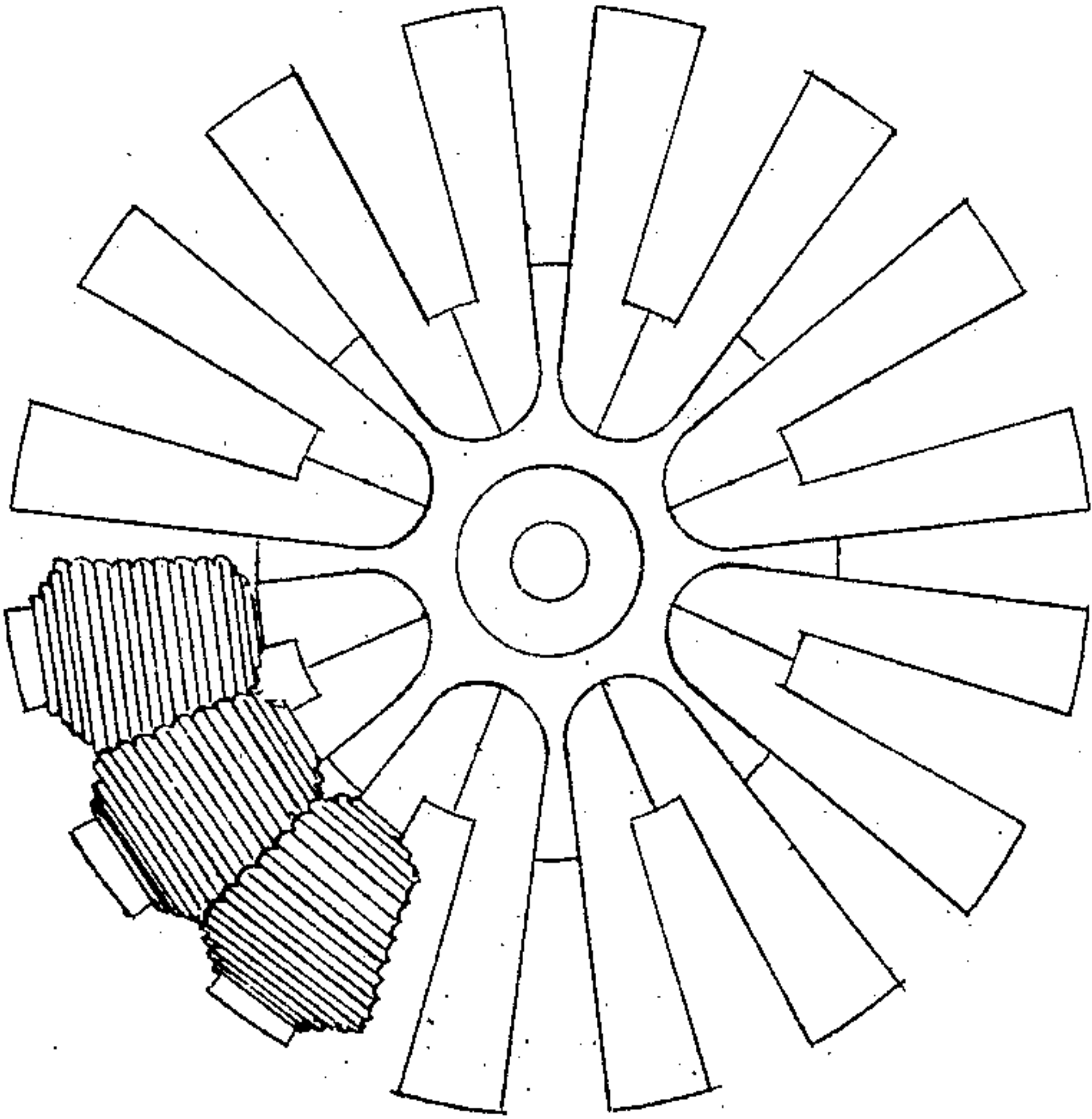


H. M. PAINE.
SECTOR ELECTROMAGNET.

No. 103,768.

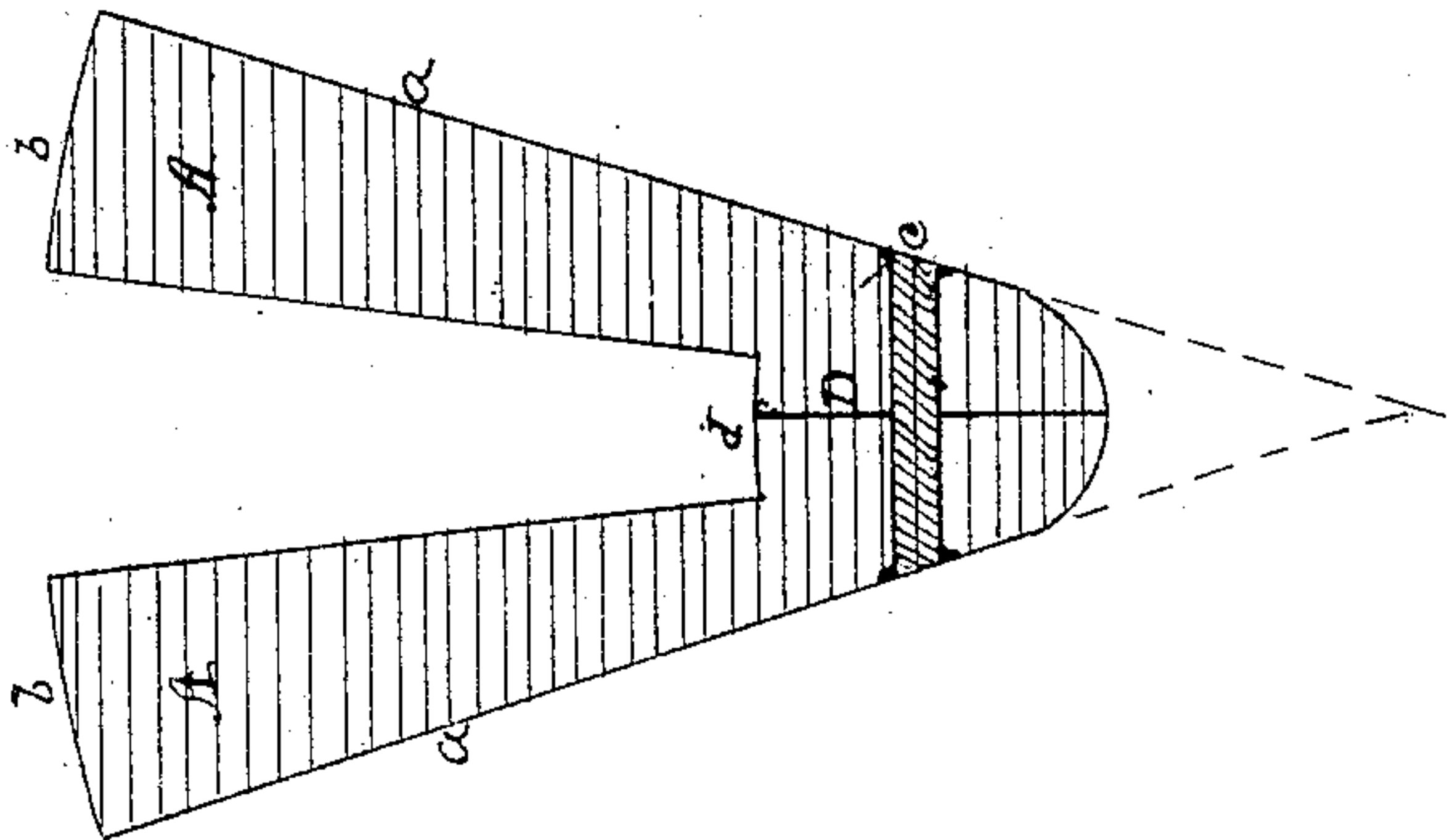
Patented May 31, 1870.

Fig 2



H. M. Paine

Fig 1



Witness
H. M. Paine
Geo. Stanbrough

United States Patent Office.

HENRY M. PAINE, OF NEWARK, NEW JERSEY, ASSIGNOR FOR ONE-HALF
TO M. S. FROST, OF NEW YORK CITY.

Letters Patent No. 103,768, dated May 31, 1870.

IMPROVEMENT IN SECTOR ELECTRO-MAGNETS.

The Schedule referred to in these Letters Patent and making part of the same.

I, HENRY M. PAINE, of the city of Newark, in the State of New Jersey, have made certain Improvements in the Construction of Sector Electro-Magnets, of which the following is a specification.

My improvement relates to shaping the limbs of sector-magnets in such wise that they will describe radial lines, and thus form a compact mass, when brought together, around a common axis.

The limbs A A, Figure 1, are made separate, and their outer lines *a a* taper from the poles *b b* toward their junction D at angles that will meet at the center of the shaft, which forms the center of motion around which they rotate.

The junction of the limbs is shouldered, *d*, so as to secure a space between them for the current coils, and screw-bolts *c c*, or rivets, bind the limbs together.

Figure 2 represents a wheel made up of these radial magnets.

I claim as my invention—

The construction of radial-limbed magnets, substantially as herein described.

HENRY M. PAINE.

Witnesses:

H. M. PIERSON,
JAS. STANBROUGH.