

(No Model.)

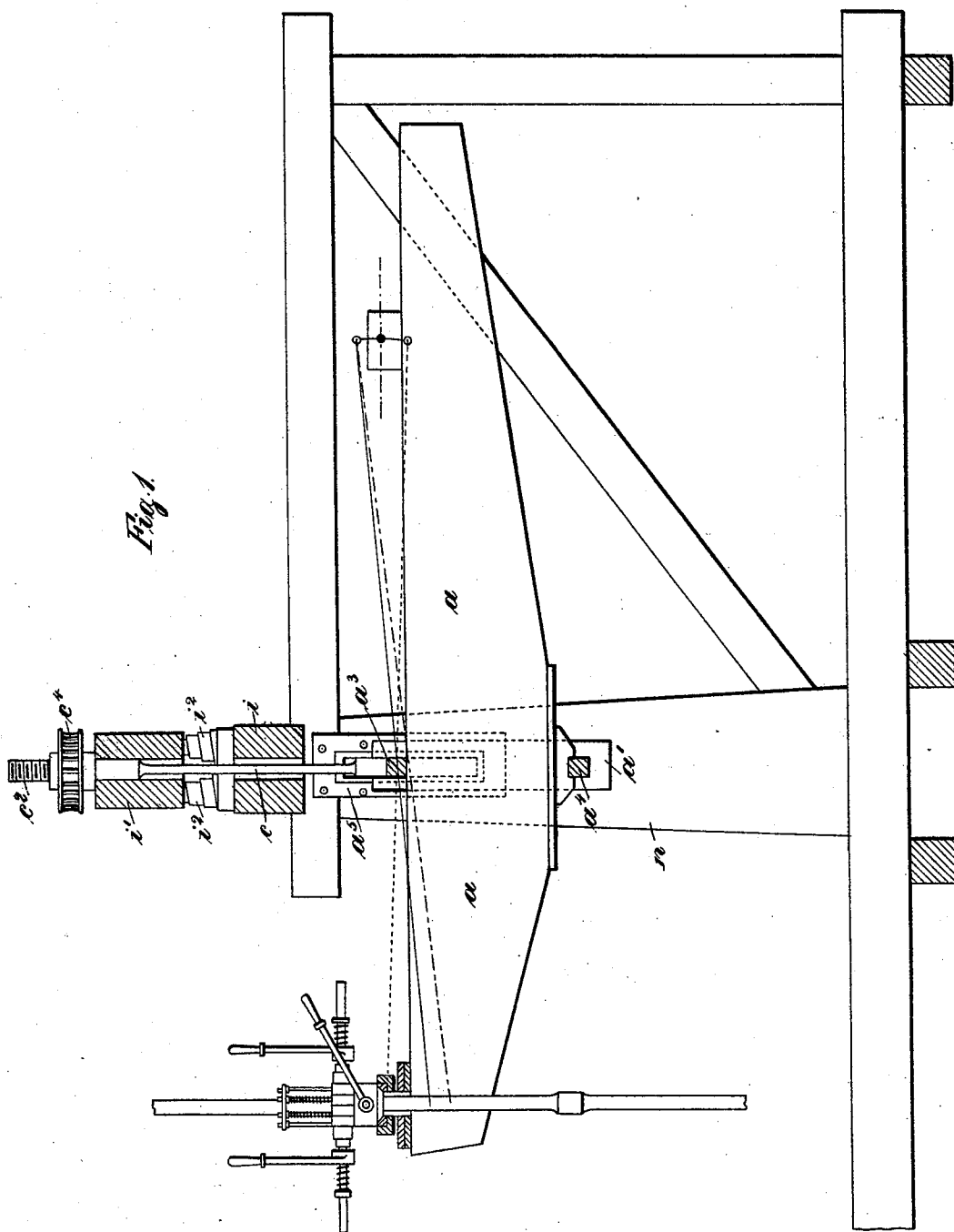
2 Sheets—Sheet 1.

A. RAKY.

# BORING APPARATUS FOR DEEP BORINGS WITH OSCILLATING BEAMS.

No. 587,065.

Patented July 27, 1897.



Witnesses:  
Carl Kufz.  
Emil Kaysen.

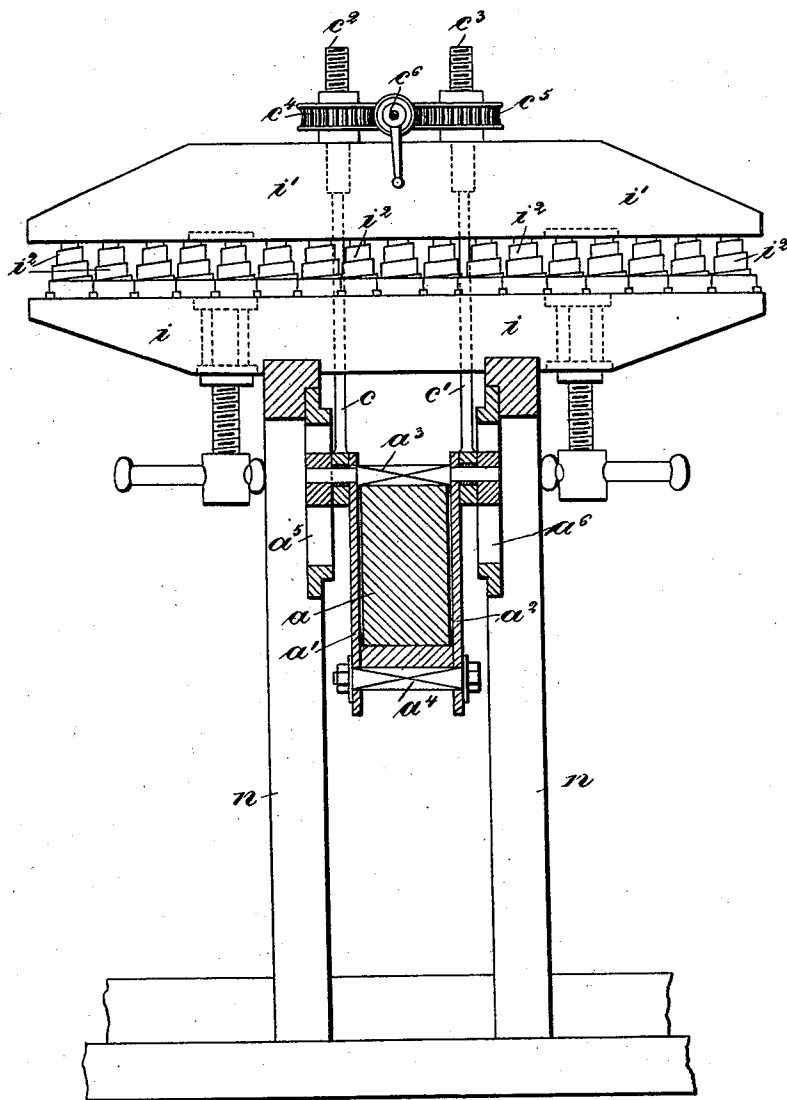
Inventor:  
Anton Raky.  
by *Robert D. Hughes*  
Attorney.

(No Model.)

2 Sheets—Sheet 2.

A. RAKY.  
BORING APPARATUS FOR DEEP BORINGS WITH OSCILLATING BEAMS.  
No. 587,065. Patented July 27, 1897.

Fig. 2.



Witnesses:  
*Carl R. R. S.*  
*Emil F. H. S.*

Inventor:  
Anton Raký,  
by *Wm. S. S. S.*  
Attorney.

# UNITED STATES PATENT OFFICE.

ANTON RAKY, OF RUPPRECHTSAU, GERMANY.

BORING APPARATUS FOR DEEP BORINGS WITH OSCILLATING BEAMS.

SPECIFICATION forming part of Letters Patent No. 587,065, dated July 27, 1900.

SPECIFICATION forming part of Letters Patent No. 587,065, dated July 27, 1900.

SPECIFICATION forming part of Letters Patent No. 587,065, dated July 27, 1900.

Having now particularly described and ascertained the nature of this invention, what I desire to secure by Letters Patent of the United States is—

5 In a boring apparatus for deep borings having an oscillating beam supported by springs, the combination with the latter and with their support, of another support for said oscillating beam; said other support being carried by said springs, and means for

changing the distance between the said beam and the said supports, for the purpose as described.

In testimony whereof I have signed this specification in the presence of two subscribers and witnesses.

ANTON RAKY.

Witnesses:

WM. ESSENWEIN,  
ERNEST RENDRÉ.