

(No Model.)

L. HABERKAM.
CARILLON.

No. 428,207.

Patented May 20, 1890.

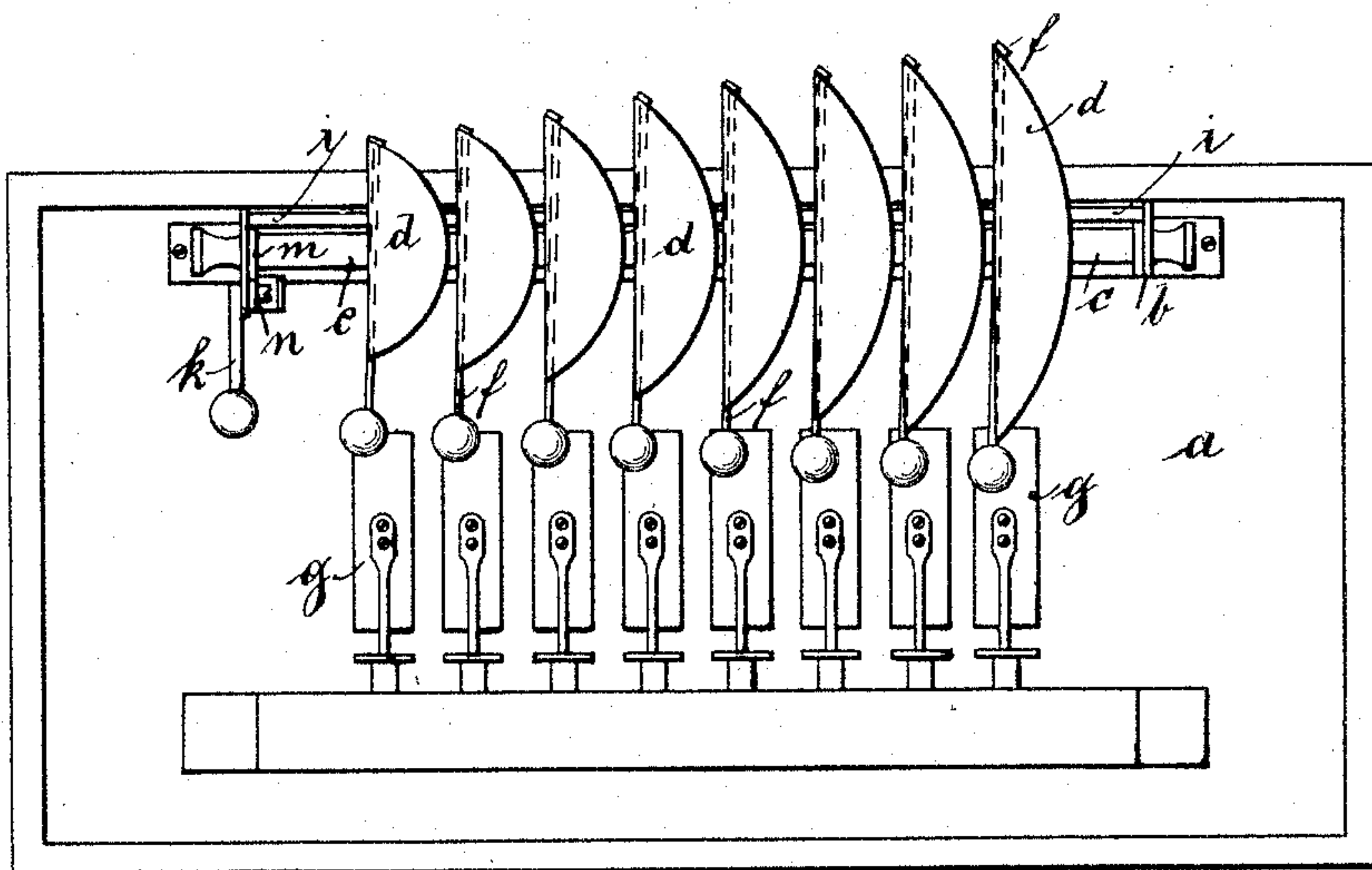


Fig. 1.

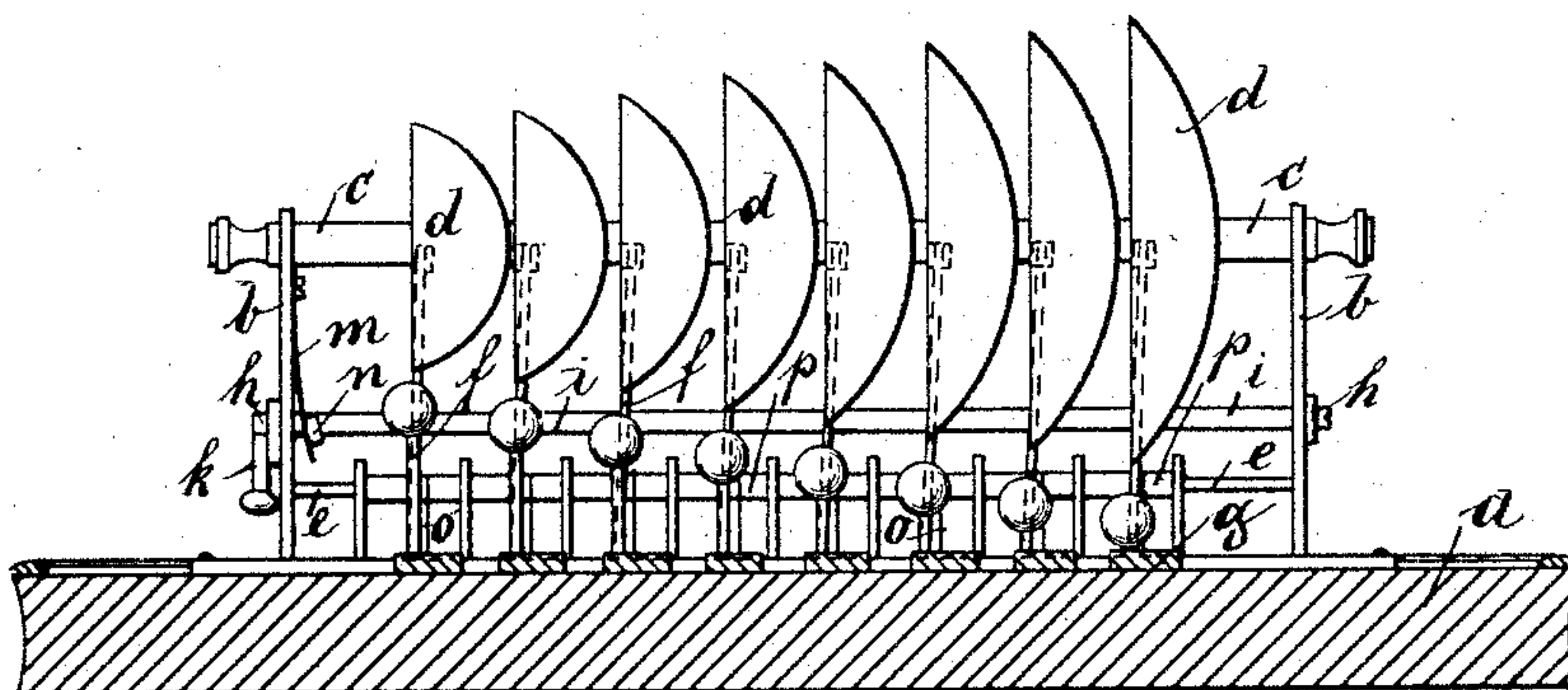


Fig. 2.

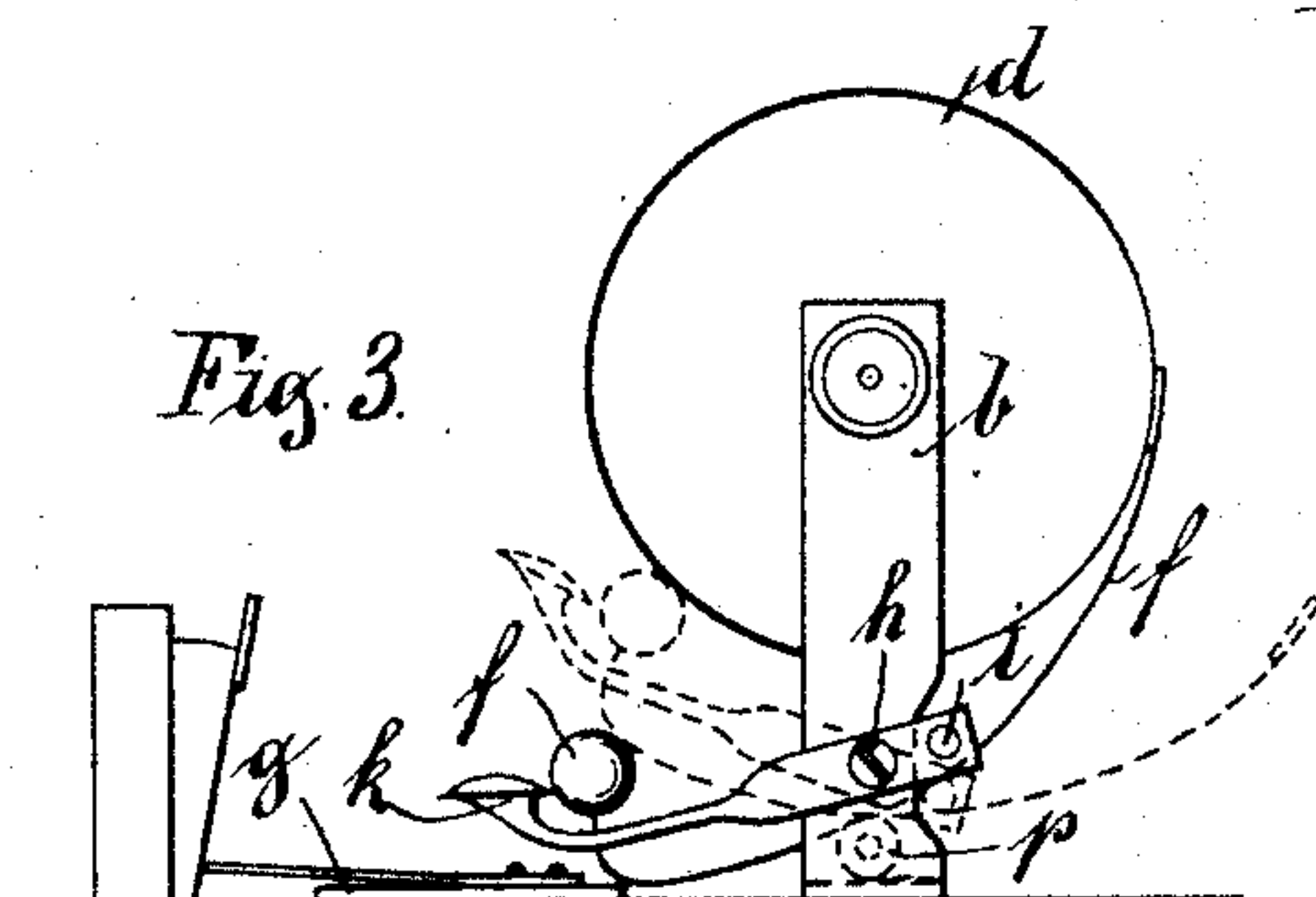


Fig. 3.

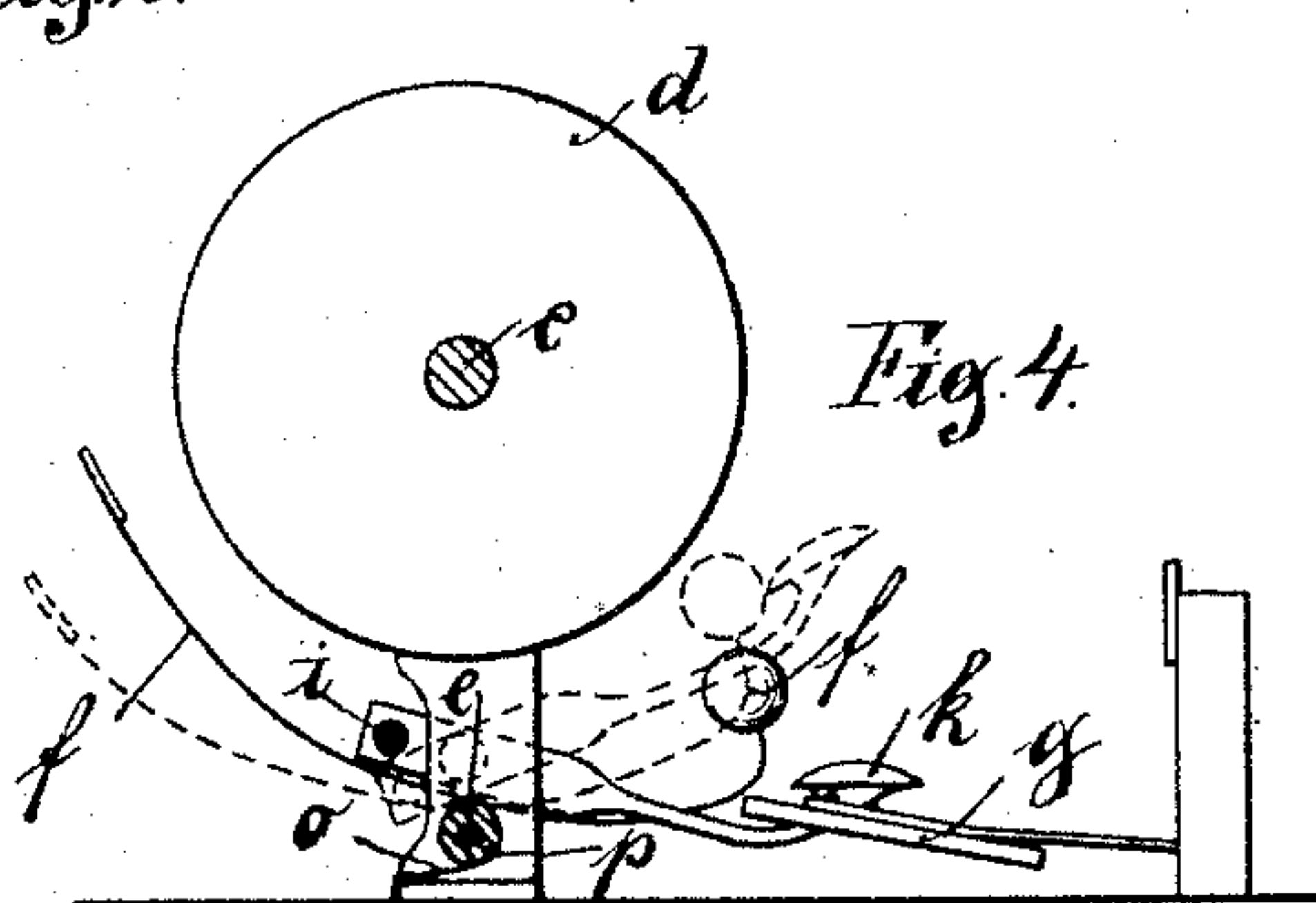


Fig. 4.

Witnesses:
C. S. Burdham
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Inventor:
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per Heinrich Lade
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UNITED STATES PATENT OFFICE.

LUDWIG HABERKAM, OF LEIPSIC, SAXONY, GERMANY.

CARILLON.

SPECIFICATION forming part of Letters Patent No. 428,207, dated May 20, 1890.

Application filed August 23, 1889. Serial No. 321,744. (No model.)

To all whom it may concern:

Be it known that I, LUDWIG HABERKAM, a subject of the King of Saxony, residing at the city of Leipsic, Saxony, German Empire, have
5 invented certain new and useful Improvements in Carillons; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable
10 others skilled in the art to which it appertains to make and use the same.

My invention relates to means for the mechanical playing of gongs or bells, in which by the lifting of a valve, besides the sound
15 produced by lifting of the valve, a gong or bell is struck.

The invention consists in an arrangement of hammers swinging freely on a shaft, which hammers are impelled against the bells by
20 striking levers, and of a frame which operates on all the hammers and can move them so far from the striking levers as to render contact between hammers and levers impossible.

In the accompanying drawings, Figure 1 is
25 a top view; Fig. 2, a section taken through the keys, together with a view of the peal of bells placed behind; Fig. 3, a side view with key not struck, and Fig. 4 a side view with struck key.

30 On plate *a* are fixed two standards *b*, carrying shaft *c*, on which the gongs *d* are mounted, also shaft *e*, on which the hammers *f* are mounted. These extend to the valves and have eyes *p*, by which they are carried on
35 shaft *e*, so as to allow of their free motion round the same. They are consequently impelled against the gongs *d* upon the ascent of valves *g*. On each of the standards *b* there is also a pivot *h*, on which a frame *i* may be
40 turned by means of lever *k*. The frame *i* acts upon that part of the hammers *f* which pro-

jects beyond shaft *e*, so that when pressed down through lever *k* the hammers are so raised that the valves *g* cannot come in contact with them. In order for the time being
45 to fix the frame *i* in the desired position, there is arranged on one of the standards *b* a spring *m*, furnished with lug *n*, which bears against frame *i*, and so keeps it in its place. The hammers *f* are formed with extensions, which
50 act as sound-dampers, they being covered over with cloth and bent to such a shape as will permit of their lying against the gongs upon the descent of the hammers.

Small springs *o* keep the hammers *f* pressed
55 against the valves *g* when the frame *i* is not turned down. In Figs. 3 and 4 the position of the hammers *f*, when moved away from valves *g* by frame *i*, is shown in dotted lines; hence it will be seen that valves *g* may perform any de-
60 sired stroke without coming in contact with the hammers, so that however energetically the keys may be struck the gongs will not sound.

Having now particularly described and ascertained the nature of my said invention
65 and in what manner the same is to be performed, I declare that what I claim is—

1. The hammers *f f*, mounted on shaft *e*, in combination with valves *g g* and with gongs
70 *d d* on shaft *c*, for the purpose specified, substantially as described and shown.

2. The frame *i*, in combination with hammers *f f* and shaft *e*, for the purpose specified, substantially as described and shown.

In testimony whereof I sign this specification
75 in the presence of two subscribing witnesses.

LUDWIG HABERKAM.

Witnesses:

CARL BORNGRAEBER,
ERNST SCHOLZ.