

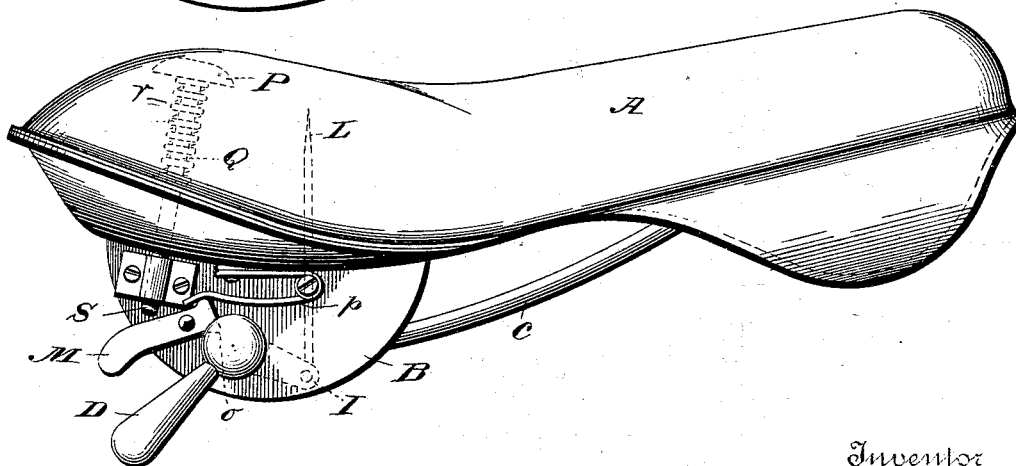
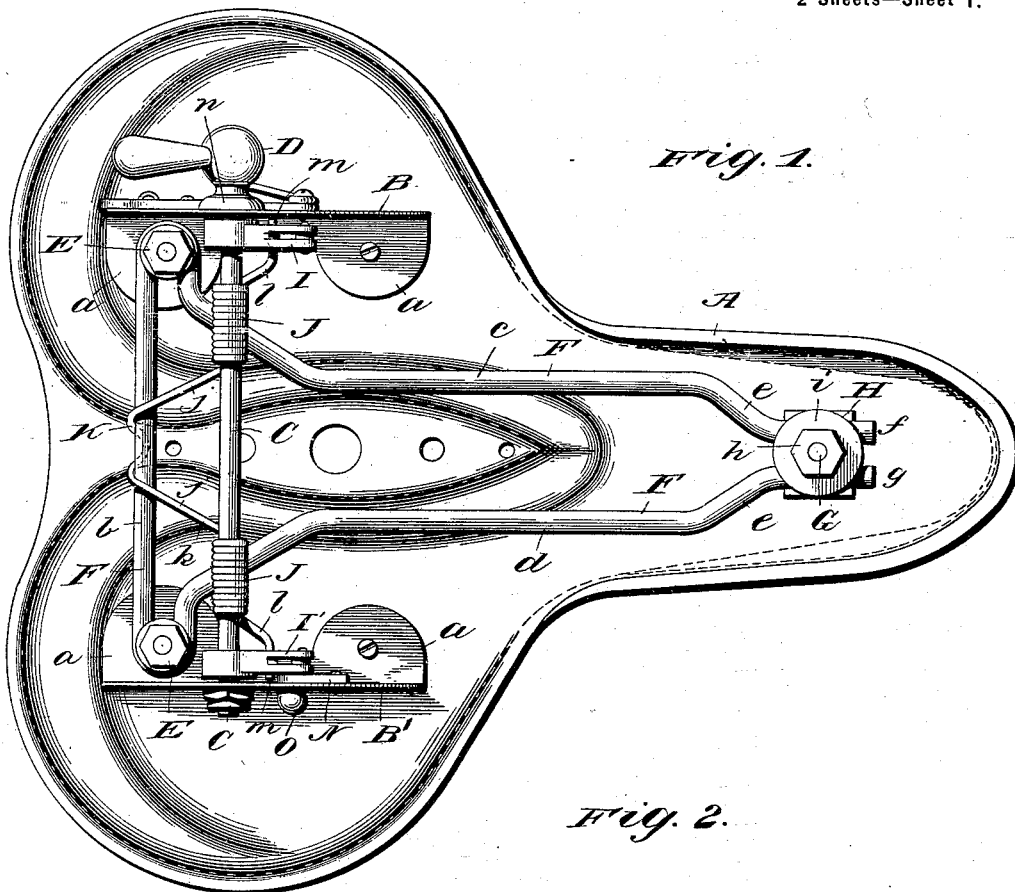
No. 650,082.

Patented May 22, 1900.

A. A. NEUBAUER.
BICYCLE ATTACHMENT.
(Application filed Sept. 6, 1899.)

(No Model.)

2 Sheets—Sheet 1.



Witnesses
A. Adams
L. P. Bruner.

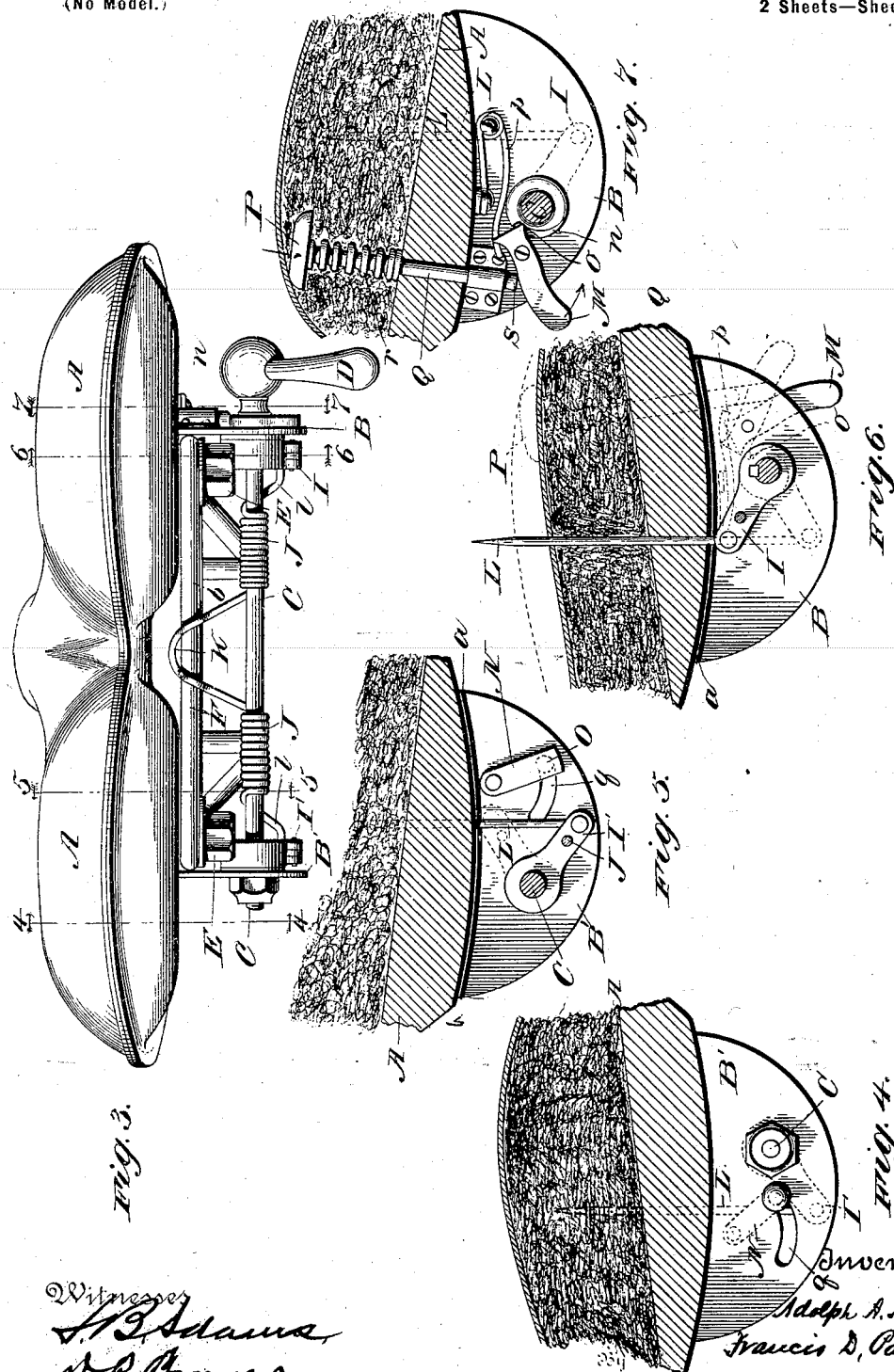
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BICYCLE ATTACHMENT.

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2 Sheets—Sheet 2.



UNITED STATES PATENT OFFICE.

ADOLPH A. NEUBAUER, OF CAMDEN, NEW JERSEY.

BICYCLE ATTACHMENT.

SPECIFICATION forming part of Letters Patent No. 650,082, dated May 22, 1900.

Application filed September 6, 1899. Serial No. 729,587. (No model.)

To all whom it may concern:

Be it known that I, ADOLPH A. NEUBAUER, a citizen of the United States, residing at Camden, in the county of Camden and State of New Jersey, have invented a new and useful Improvement in Bicycle-Seats, of which the following is a specification.

The invention is for preventing the stealing of bicycles by riding them away. The seat is provided with one or more upwardly-projecting needles or pricks, which reciprocate through one or both sides of the seat-top by means of mechanism located beneath in such manner that the rider can raise them when the bicycle is not in use and depress them when in use.

On reference to the accompanying sheets of drawings, making part of this specification, Figure 1 is a bottom view of the bicycle-seat and its mechanism. Fig. 2 is a side view of the bicycle-seat, showing a side view of one of the depending hangers and the handle of the transverse shaft. Fig. 3 is an end view of the bicycle-seat and its mechanism. Fig. 4 is an end view, partly sectioned, through the line 4 4, Fig. 3. Fig. 5 is an inside end view, partly sectioned, through the line 5 5, Fig. 3. Fig. 6 is an inside end view, partly sectioned, through the line 6 6, Fig. 3; and Fig. 7 is an outside end view, partly sectioned, through the line 7 7, Fig. 3.

Similar letters refer to similar parts in the several views.

Depending from the bottom of the seat A are the wide-apart hangers B B', in which is journaled a transverse crank-shaft C, provided at its outer end with a handle D. Fixed to the flanges *a* of the hangers B B' by bolts E is a spring F, which extends transversely at *b* and bends around said bolts E, then passes horizontally in the parallel parts *c d*, and finally is turned inwardly at E, so that the extreme ends *f g* embrace a depending bolt G of the seat A and are fixed on a chair H by a nut *h* and washer *i* of said bolt.

On the transverse crank-shaft C, within the hangers B B', are cranks I I', one or more, in engagement with the ends of a resilient wire J, which is formed into a suitable spring by bending it centrally in a hook K for embracing the transverse part *b* of the seat-spring

F. The double lengths *j k* are then extended horizontally and wound around the shaft C in opposite directions, their ends *l* being fixed in openings *m*, formed in the cranks I I', to which are pivoted the needles or pricks L, extending upwardly, to optionally project through the seat A.

The hub *n* of the crank-shaft handle D is partially cut away at *o* to provide for the action of a detent M, pivoted to one of the hangers B. The end of said detent engages with the loose end of a spring *p* of the hanger B, which is so arranged as to force that end of the detent into the cut-away or reduced part *o* of the handle-hub *n*. Pivoted to the opposite hanger B' is a detent N, which is operated by a handle or knob O, extending through an arc or slot *q* of said hanger, so that its loose end can be moved until it rests on the top of its respective crank I', and prevents the elevation of the cranks *i i'* by stopping the rotation of the crank-shaft C, and of consequence the raising of the needles or pricks L through the top of the bicycle-seat A.

The operation is as follows: The rider of the bicycle turns the crank-shaft C by its handle D until the end of the detent M takes into and is securely held in the slot or cut-away part *o* of the handle-hub *n* by the spring *r*, and the knob O of the opposite hanger B' is moved in its slot *q* until the end of the detent N is above its respective crank I', by which the needles or pricks L are held and fixed beyond the possibility of accidental raising through the surface of the seat A. When the rider dismounts, he turns the detents M N until their combined support is removed from the axle C and cranks I I', and the spring J is free to act by turning said axle C and cranks I I' and throwing up the needles or pricks L until their ends project upwardly through the top of the bicycle-seat, and thus prevent any one from mounting the bicycle without serious injury or manipulating the detents for lowering the needles or pricks without detection. To the seat A, near its top or surface, is a button P of a vertical shaft Q, which is held in a raised position by a spring *r*. When depressed, its bottom end *s* engages with the detent M and

moves it sufficiently to break the engagement between it and the slot *c* of the hub *n* of the handle *D*.

I claim—

- 5 1. The combination with a bicycle-seat of depending hangers, transverse crank-shaft of depending hangers, actuating-spring of crank-shaft, cranks at opposite ends of crank-shaft, and upwardly-projecting needles of cranks.
- 10 2. The combination with a bicycle-seat of depending hangers, transverse crank-shaft of depending hangers, actuating-spring of crank-shaft, cranks at opposite ends of crank-shaft, upwardly-projecting needles of cranks, and a
15 detent of the crank-shaft handle for holding the needles in a lowered position.
3. The combination with a bicycle-seat of depending hangers, transverse crank-shaft of depending hangers, actuating-spring of
20 crank-shaft, cranks at both ends of crank-

shaft, upwardly-projecting needles of crank-shaft, detent of the crank-shaft handle for holding the needles in a lowered position, and a detent bearing on and engaging the opposite crank.

- 25 4. The combination with a bicycle-seat of depending hangers, transverse crank-shaft of depending hangers, actuating-spring of crank-shaft, cranks at both ends of crank-shaft, upwardly-projecting needles of cranks, detent
30 engaging with crank-shaft handle, and a spring-plunger for disengaging the crank-shaft handle and its detent.

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

ADOLPH A. NEUBAUER.

Witnesses:

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B. D. ARCHER.