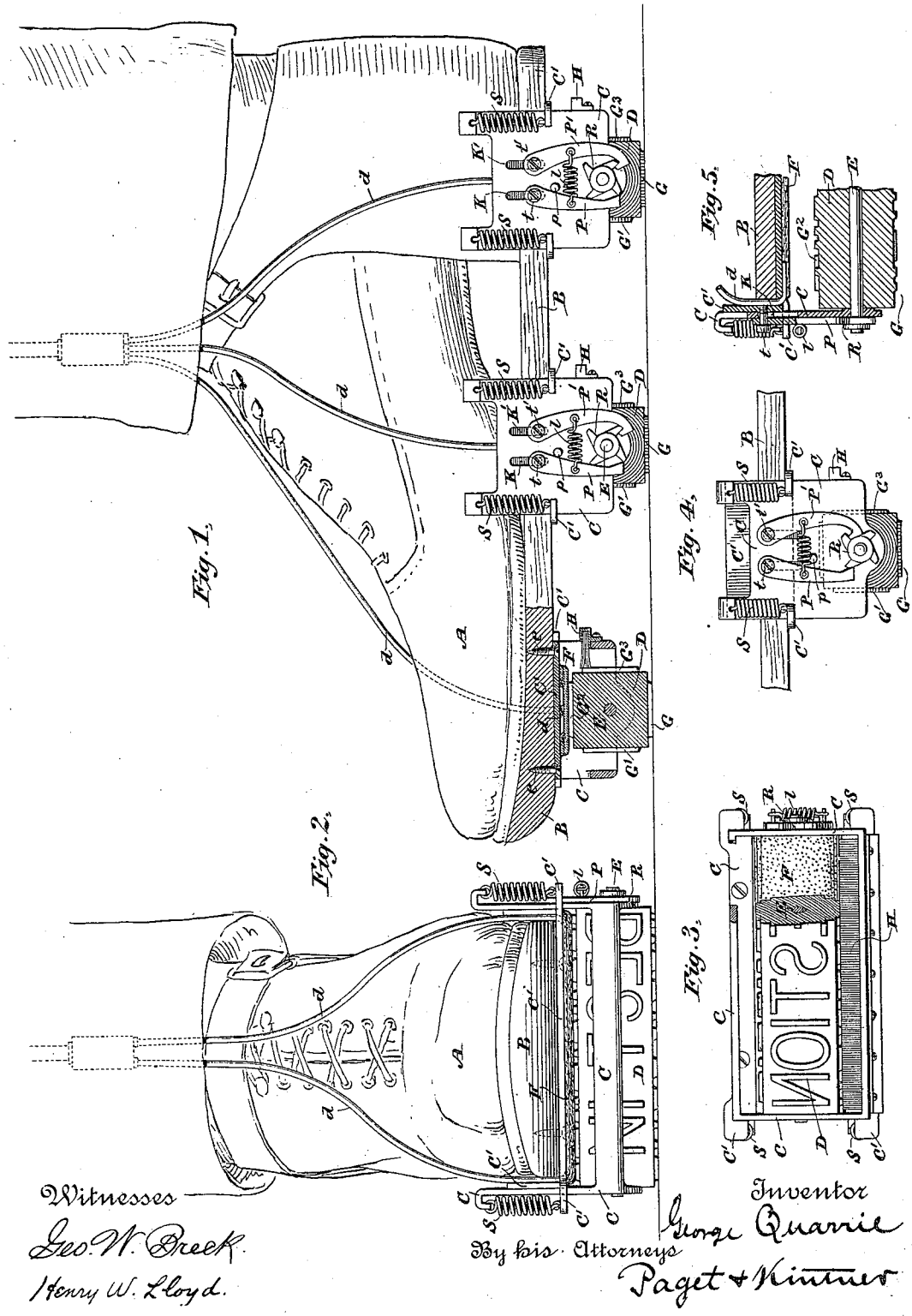
(No Model.)

G. QUARRIE.

ADVERTISING DEVICE.

No. 438,179. Patented Oct. 14, 1890.



Witnesses
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Henry W. Lloyd.

Inventor
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THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

GEORGE QUARRIE, OF NEW YORK, ASSIGNOR OF ONE-THIRD TO THOMAS ROBERT SULLY, OF BUFFALO, NEW YORK.

ADVERTISING DEVICE.

SPECIFICATION forming part of Letters Patent No. 438,179, dated October 14, 1890.

Application filed November 8, 1889. Serial No. 329,666. (No model.)

To all whom it may concern:

Be it known that I, GEORGE QUARRIE, a subject of the Queen of Great Britain, temporarily residing in New York, county of New York, and the State of New York, have made a new and useful invention in the Art of Advertising, of which the following is a specification.

My invention relates to an improvement in that branch of the art in which advertising is displayed upon floors, sidewalks, or in similar places under foot.

It has long been customary to display various characters, signs, or words upon the surface of floors, sidewalks, or similar places for the purpose of attracting the attention of pedestrians and others by painting or marking the same thereon by hand.

My invention has special relation to improved means for impressing this type of advertisements upon the surface where it is desired to display them. It will be fully understood by referring to the accompanying drawings, in which—

Figure 1 is a side elevational view of my novel apparatus, parts being shown in section. Fig. 2 is a front elevational view. Fig. 3 is a detail plan view, partly broken away, of one printing-block and its operative connections; Fig. 4, an end view thereof and Fig. 5 is a detail sectional view of the same part, showing its connection to the sole of a boot or shoe.

I propose to print, stamp, or in any analogous manner impress the advertisement upon the surface of a walk or floor, and my preferred form of apparatus for accomplishing this consists in a device adapted to be secured to either or both feet of a pedestrian, so that as he walks from place to place impressions will be left in his path.

A represents a booted human foot, to which is secured, after the manner of a skate, or permanently by screws, or otherwise, if desired, a foot-piece B, having on its under side two or more metallic cross-bars C′ C′, attached by screws *e e;* or they may, if preferred, be adjustable and attached directly to the sole of the boot or shoe by clamps, or in any preferred way, such matters being at once obvious. These cross-bars project at their ends beyond the edges of the foot-piece B, and are notched and turned up, as shown in Fig. 5, to admit the vertically-sliding side plates C C, having firm vertical sliding bearings. These side plates are provided at their lower extremities with journal-bearings for axles E, carrying the four-sided printing or impression blocks D, upon the surfaces of which are cut or otherwise secured the type characters or designs it is desired to imprint or display. These blocks are or may be removable at will.

S S are springs for each block, arranged in pairs at the opposite ends thereof, and secured at their ends to the fixed bars C′ C′ and the sliding plates C C, always tending to remove the blocks from the surface of the foot-piece B.

P P′ are pawls pivotally secured to the foot-piece B by screws *t t′*, and provided with a spring *l*, for holding them in operative relation with the ratchets R R, said pawls acting to rotate and to hold the blocks D a quarter of a revolution for each step taken.

p p are stationary pins secured to the sliding side pieces C for forcing pawls P aside.

G, G′, G^2, and G^3 are the type or character surfaces, which may be integral with the blocks or removable at will and secured in any preferred manner.

F is an ink-pad of porous material, as felt or the like, there being one for each block D.

d d d are ink tubes or ducts for supplying ink to the pads F, the ink-supply being located, preferably, in the pocket of the operator. These ducts may, however, be omitted and the pads inked in any such way as will readily suggest itself.

H is a brush—one for each type-block D—for cleaning the surfaces G, G′, G^2, and G^3, as revolved past it.

The operation is as follows: The desired characters to be printed or displayed on any surface having been arranged in place and the pads inked, the operator walks over the surface to be marked. The first step causes the pawls to assume the position shown in Fig. 1, thereby bringing the surfaces G of the printing-blocks squarely on the walk and placing the springs S S all under tension, and the upper surfaces G^2 G^2 at the same time coming firmly against the inking-pads F F are inked thereby. As the foot is raised, the pawls

P′, acting on ratchets R, rotate the printing-blocks one-quarter of a turn, thus bringing surfaces C′ in a position to print and C^3 under the ink-pads, the pawls P acting each time as holding-pawls to assure a perfectly-level contact between the printing-surfaces and the walk. Each step therefore causes one set of characters to be printed on the walk or floor, and the act of raising the foot allows the printing-blocks D to rotate a quarter of a revolution, whereby a second set is presented for printing, the inking also taking place each time the foot is depressed. The brushes H—one for each block—clean the printing-surfaces as they pass and before being presented for inking. There may be any preferred arrangement of the characters on surfaces G G G and G′ G′ G′, &c., each set displaying a single advertisement of a different nature, if desired. It will of course be understood that this apparatus may be used for any analogous purpose—as, for instance, to mark boxes or packages laid in a row, so that the operator can walk over them, or to print or impress any surface for any purpose whatever.

Having thus described my invention, what I claim, and desire to secure by Letters Patent of the United States, is—

1. An advertising device consisting of a foot-piece supporting a pair of rotary printing-blocks carrying printing characters on their lateral faces, in combination with an inking-pad and cleaning-brush for each block and mechanism for rotating the blocks as the pedestrian advances step by step, substantially as described.

2. An advertising device consisting of a printing-stamp having means for securing it to the foot of a pedestrian, in combination with an inking-pad for inking the stamp, a brush for cleaning it, and an inking-tube running to a point accessible to the hand of the pedestrian, substantially as described.

3. An advertising device consisting of a printing-stamp having means for securing it to the foot of a pedestrian, in combination with an inking-pad and a cleaning-brush, substantially as described.

GEORGE QUARRIE.

Witnesses:
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E. M. HOOKE.