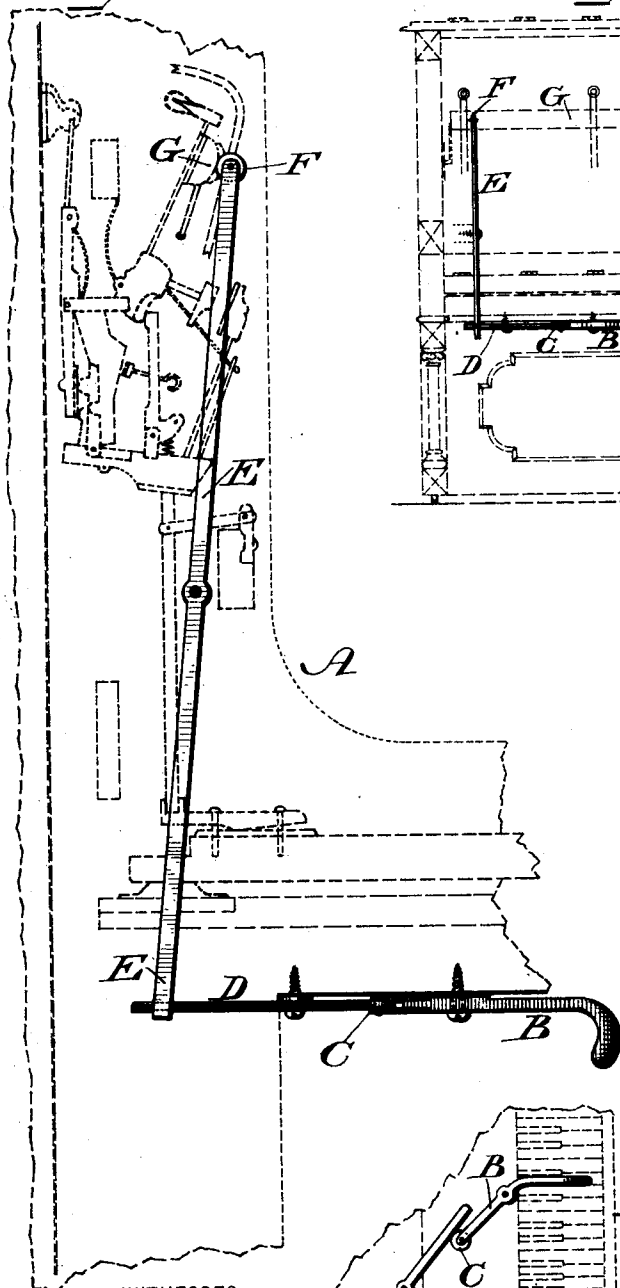


J. Y. DRUCKENMILLER.
EXPRESSION REGULATOR FOR PIANOS.

Patented Sept. 6, 1892.

Fig. 1.



WITNESSES :

L. Douville,
P. F. Tagle.

Fig. 2.

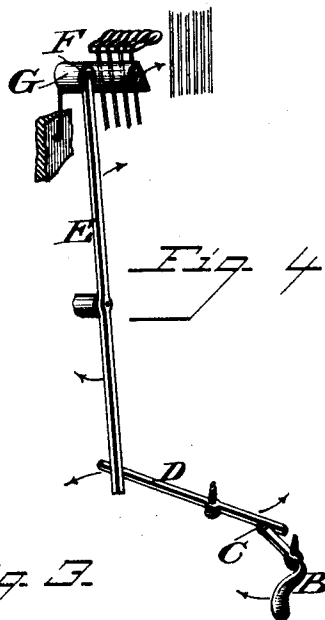
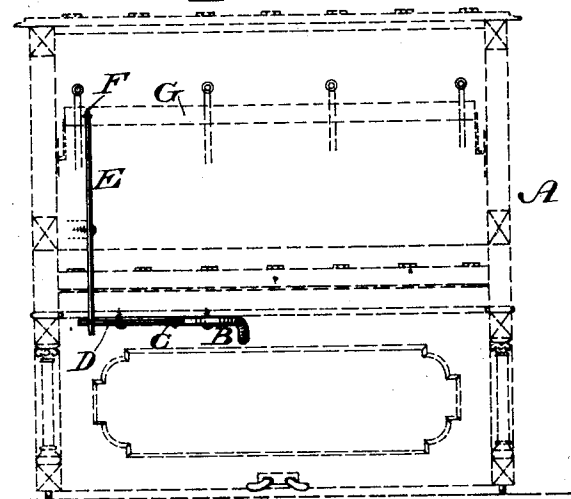
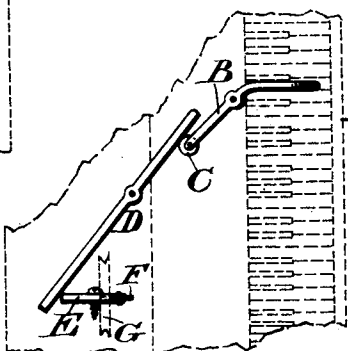


Fig 4



Ex. 3

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UNITED STATES PATENT OFFICE.

JOSEPH Y. DRUCKENMILLER, OF JENKINTOWN, PENNSYLVANIA.

EXPRESSION-REGULATOR FOR PIANOS.

SPECIFICATION forming part of Letters Patent No. 482,168, dated September 6, 1892.

Application filed May 16, 1892. Serial No. 433,134. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH Y. DRUCKENMILLER, a citizen of the United States, residing at Jenkintown, county of Montgomery, and State of Pennsylvania, have invented a new and useful Improvement in Expression-Regulators for Pianos, which improvement is fully set forth in the following specification and accompanying drawings.

My invention consists of an attachment to a piano, constructed substantially as hereinafter described, whereby the character of the music that is performed may be expressed or regulated.

Figure 1 represents a side elevation of a piano expression-regulator embodying my invention. Fig. 2 represents a front view thereof on a reduced scale. Fig. 3 represents a bottom plan view thereof. Fig. 4 represents a perspective view thereof.

Similar letters of reference indicate corresponding parts in the several figures.

Referring to the drawings, A designates a piano, which, excepting the features of my invention applied thereto, is of usual construction.

To a portion of the case of the instrument beneath the keyboard is pivoted the knee-piece B, whose inner end is provided with a roller C, which latter bears against a lever D, which is pivoted adjacent to said knee-piece.

E designates a vertically-arranged lever, which is mounted within the body or case of

the instrument and having its lower end engaged by the lever D and its upper end provided with a roller F, which bears against the hammer rest rail or head G, it being seen that by the proper operation of the knee-piece B the lever E may be caused to set the hammer nearer to the strings, thus expressing or regulating the character of the music that is performed.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. An expression-regulator for a piano, consisting of a pivoted knee-piece and two pivoted levers adapted to be attached to the casing of the piano, said parts being combined substantially as described.

2. An expression-regulator for a piano, consisting of a knee-piece adapted to be pivoted to the casing of a piano and having a roller journaled on one end, a pivoted lever having one end in contact with said roller, a vertically-pivoted lever within the piano-casing, having its lower end in contact with one end of said first-mentioned levers and its upper end adapted to contact with the hammer rest rail or head of the piano, said parts being combined substantially as described.

JOSEPH Y. DRUCKENMILLER.

Witnesses:

JOHN A. WIEDERSHEIM,
A. P. JENNINGS.