

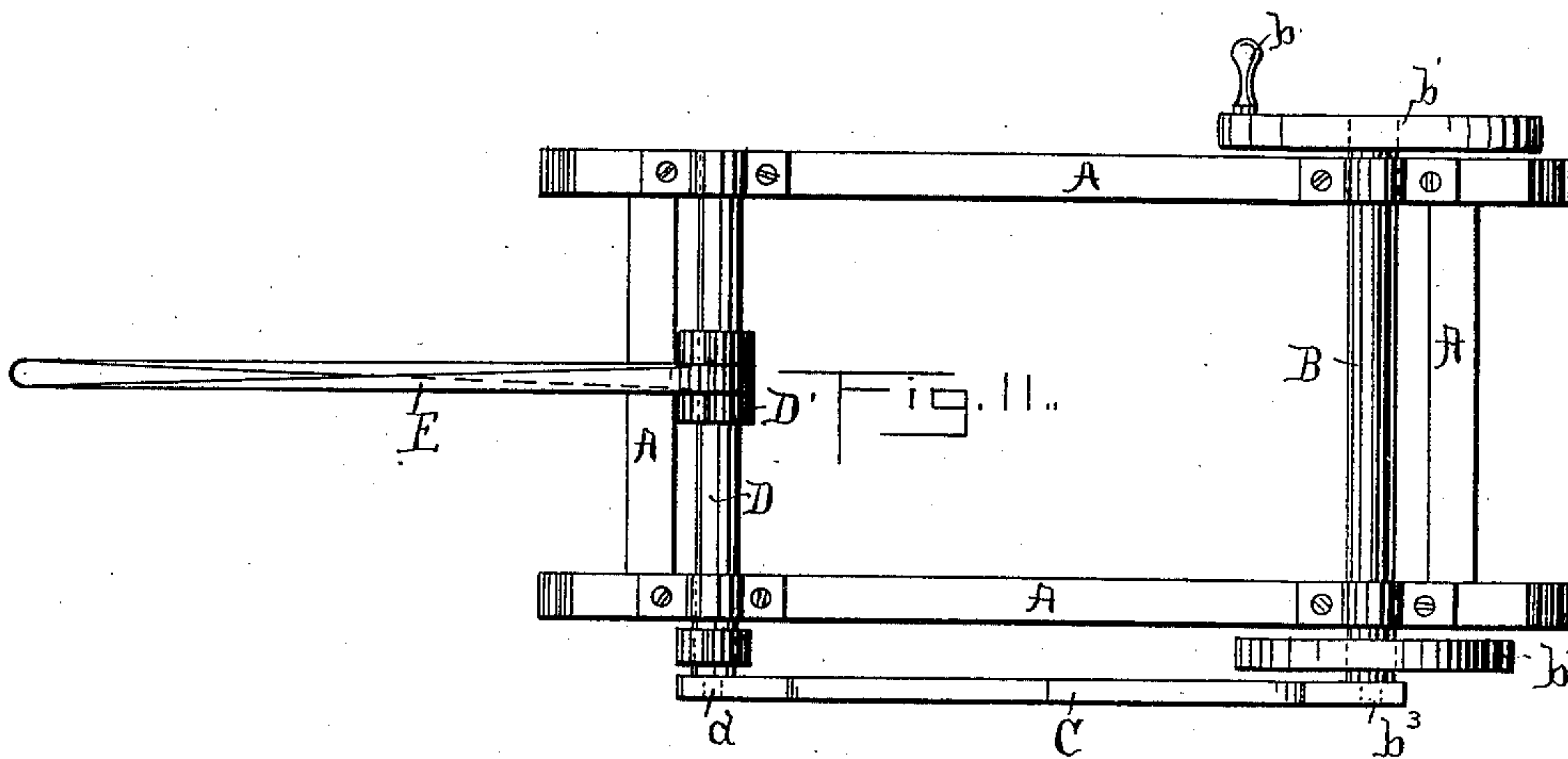
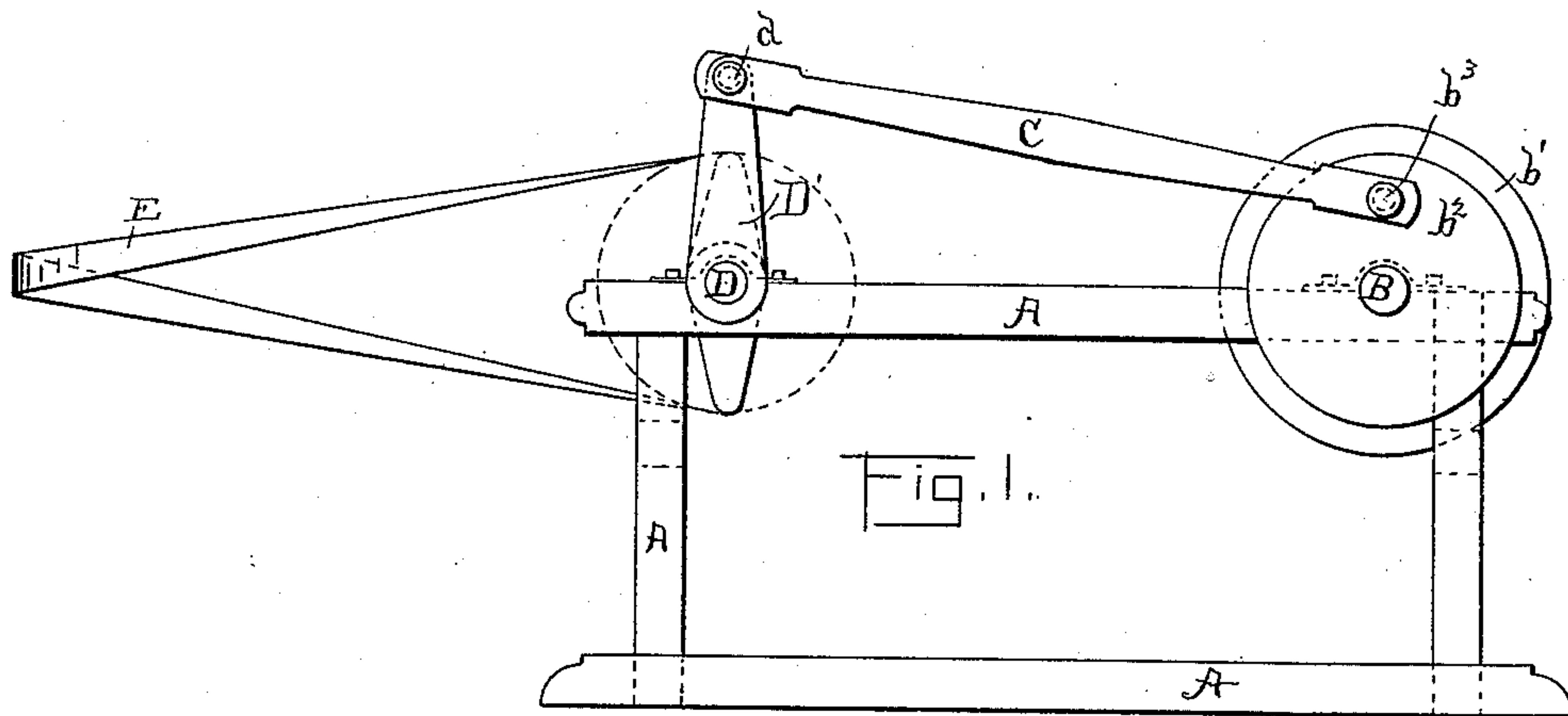
(No Model.)

D. WARK.

MOVEMENT CURE APPARATUS.

No. 349,019.

Patented Sept. 14, 1886.



Witnesses:
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UNITED STATES PATENT OFFICE.

DAVID WARK, OF MOUNT VERNON, NEW YORK.

MOVEMENT-CURE APPARATUS.

SPECIFICATION forming part of Letters Patent No. 349,019, dated September 14, 1886.

Application filed December 7, 1885. Serial No. 185,010. (No model.)

To all whom it may concern:

Be it known that I, DAVID WARK, of Mount Vernon, in the county of Westchester and State of New York, have invented a new and useful
5 Improvement in Movement-Cure Apparatus; and I hereby declare the following to be a full and clear description thereof.

The object of this invention is to produce an apparatus for manipulating or rubbing dif-
10 ferent parts of the human body.

The invention consists in the combination of a belt or strip of any textile fabric or other suitable material with an actuating mechanism, to which the ends of the said belt or strip
15 are secured, and by which it is moved alternately in opposite directions, so as to perform the necessary rubbing operation to any part of the human body which may be placed within the loop of and in contact with the belt or
20 strip.

The invention will be readily understood by reference to the accompanying drawings, of which Figure I is a side elevation of the improved machine. Fig. II is a plan view
25 thereof.

The machine or apparatus is supported on a frame, A, of any suitable construction. This frame carries a driving-shaft, B, which is provided with a crank, b , and a wheel, b' , by
30 which to drive it, the former being used where the machine is operated by hand, and the latter where it is operated by power. It should also have a balance-wheel, b^2 ; but this is not indispensable. There must be a crank-pin, b^3 , affixed to and projecting from the outer
35 face of the fly-wheel, or from some other suitable mechanism attached to the shaft B. A pitman or connecting-rod, C, connects the crank-pin b^3 with a crank-pin, d , on the rock-shaft D, or on a suitable crank or attachment there-
40 with connected. The crank-pin d is placed at a greater radial distance from the center of the shaft D than the crank-pin b^3 is from the center of the shaft B, so that the effect of ro-

tating the driving-shaft B is to rock the shaft 45 D forward and backward by means of the connecting-rod or pitman C. The rock-shaft D carries an arm, D' , which extends radially from the shaft D equally in both directions from the axis of the shaft; or, in lieu of this 50 radial arm, a cylinder may be placed on this rock-shaft, as shown by the dotted lines in Fig. 1. A manipulating strap or band, E, of textile fabric or any other suitable flexible material, and of any desired length or width, 55 has its ends securely fastened to the arm D' , (or to the equivalent cylinder or drum used in lieu of said arm,) as shown in Fig. 1. The open loop of the strap or band E is then thrown around the body or limb of the patient, as 60 desired, and the patient moved from the machine sufficiently to tighten the belt or band, and then the machine set in operation by rotating the shaft B by its crank or driving-
wheel, and the rocking motion communi- 65 cated to the shaft D is transmitted to the belt or strap E in a series of quick reciprocating movements, first in one direction and then the other, and in this way any or all parts of the body may be thoroughly manipulated or 70 rubbed, as desired.

Having described my invention, I claim—

1. The combination, with a rock-shaft provided with a radial arm and means for operating said rock-shaft, of a strap of flexible 75 material connected with said radial arm on opposite sides of the rock-shaft, substantially as and for the purpose set forth.

2. The flexible rubbing-band E, the vibrator D' , rock-shaft D, connecting-rod C and 80 its attaching-cranks b^3 d , and the rotary driving-wheel b^2 , combined substantially as described, so as to form a frictional manipulator, as set forth.

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