

UNITED STATES PATENT OFFICE.

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APPARATUS FOR REMOVING THE HONEY OR SECTION BOXES FROM HIVE SECTION-CASES OR SUPERS.

SPECIFICATION forming part of Letters Patent No. 775,691, dated November 22, 1904.

Application filed April 29, 1903 Serial No 154,757. (No model)

To all whom it may concern:

Be it known that I, JOSÉ NICOLAS MARTINEZ DE VALDIVIELSO Y MARTINEZ DE VALDIVIELSO, a citizen of the Republic of Cuba, residing at Matanzas, Province of Matanzas, Cuba, have invented a new and useful Improvement in Apparatus for Removing the Honey or Section Boxes from Hive Section-Cases or Supers; and I do hereby declare the following to be a full, clear, and exact description of the same.

My invention relates to apparatus for removing the honey or section boxes from hive section-cases or supers, the object being to simultaneously remove the boxes *en masse* from a case in a ready and convenient manner without crushing or otherwise injuring either the boxes or the contained honey.

In the accompanying drawings I have shown apparatus such as may be employed for carrying my invention into effect; but it will be understood that I do not wish to limit myself to the construction shown, as other forms of apparatus may be used and substantially the same result obtained.

In the drawings, Figure 1 is a view in perspective of a preferred form of apparatus embodying my invention, a section case or super being indicated by dotted lines in the position it occupies before the honey-boxes are removed. Fig. 2 is a central vertical sectional view showing the boxes removed from the section-case; and Fig. 3 is a view in perspective of a section-case, partly filled with boxes.

As shown, the honey or section boxes 1 are ordinarily assembled side by side in rows in the section-case or super 2, with separators 3 interposed between the rows. Each row of boxes is supported on a removable bottom bar 4, the ends of which rest on fixed cleats, brackets, or the like 5, projecting from opposite inner side walls of the case, and the whole is frictionally held therein by springs, clamps, or wedges arranged between the side of the case and an inner bar 6, extending parallel with the separators. Thus arranged the boxes &c. when clean and free may be lifted out of the case, or if gummed over and adhesively bound together they may be forced

upward by applying pressure from below, it being impossible in removing them to force them downward, as they are positively held on fixed supports *i. e.*, the cleats or brackets above referred to. The various parts are made separable to facilitate their removal and are assembled in close relation to prevent the deposit or entrance of wax, honey, &c., in the joints. In practice, however, it is found that notwithstanding these precautions the boxes, &c., become overspread with this adhesive mixture, which binds them so firmly in the section-case as to render their removal by hand extremely difficult and in many instances impossible without cracking or breaking a number of the boxes and destroying more or less honeycomb in the operation.

The apparatus thus far described forms no part of my invention, the same being the well-known form of hive section-case, &c., now in general use in apiaries and such as may be purchased in open market.

The present invention consists, essentially, in means for emptying a section-case and at the same time protecting the boxes and honey from injury.

In the practical application of my invention I preferably support the boxes and apply pressure to the section-case to force the same downward and leave the contents free and clear thereof on the support. Substantially the same result might obviously be obtained by reversing the operation that is to say, supporting the case and applying pressure to the bottom bars to force the same together with the boxes supported thereon upward clear of the case. As shown, such a support may be in the form of a platform 7, mounted on a table 8, the relative proportions of the platform and section case being such that they will telescope one within the other. Spacing-bars 9 are secured on opposite ends of the platform to provide clearance as the case is forced over the same for the cleats or bottom bar-supports on the inner walls thereof. If now, as will be seen from the foregoing, a section-case from which the boxes are to be removed is placed upon the platform and pressure applied to the case, forcing it downward

No. 775,692.

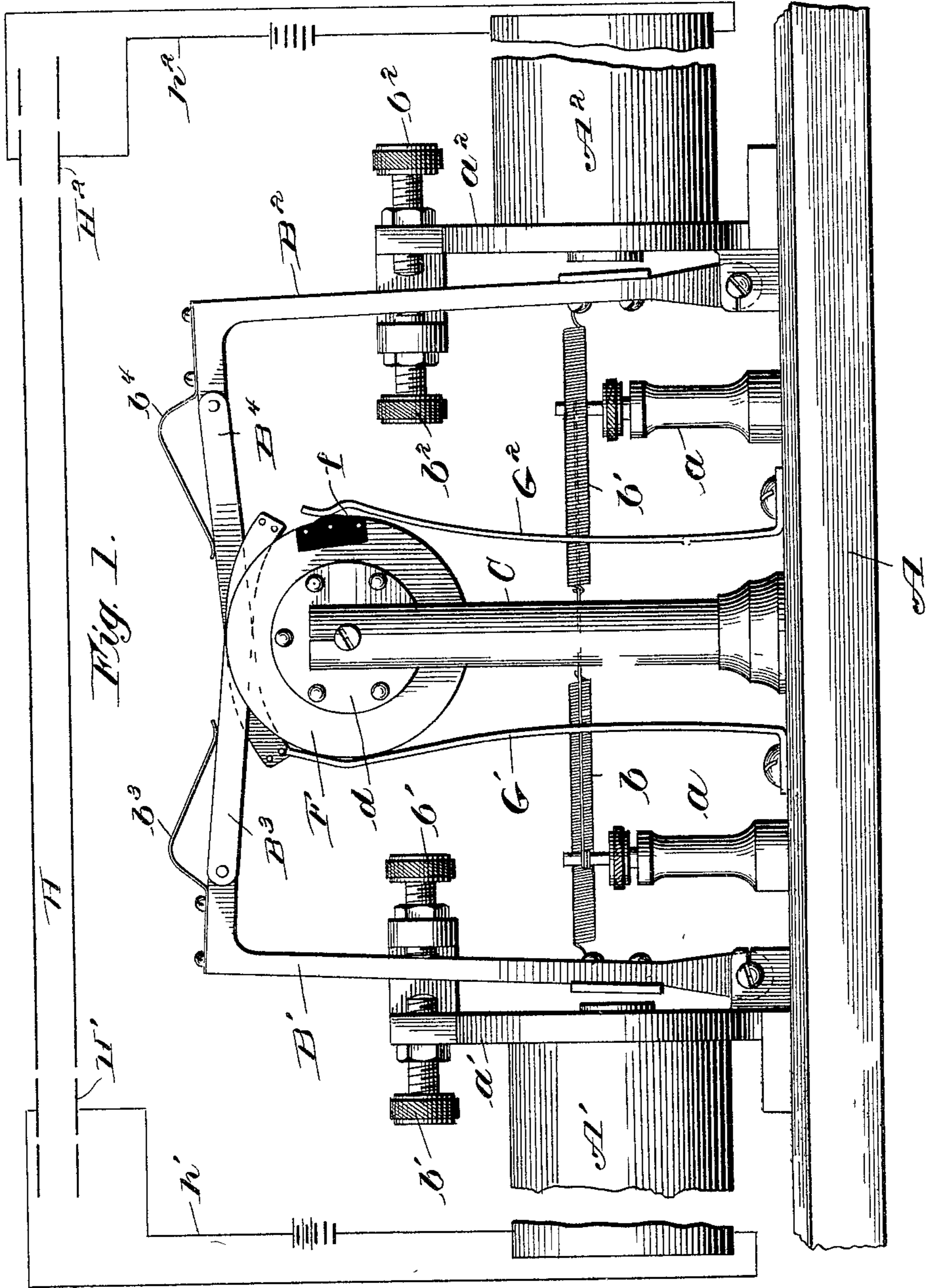
PATENTED NOV. 22, 1904.

E. W. VOGEL & C. H. MORRISON.
ELECTROMAGNETIC CIRCUIT CONTROLLER.

APPLICATION FILED MAR 21 1902

NO MODEL.

3 SHEETS SHEET 1.



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