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SPECIFICATION PATENT



Application Date: Jan. 7, 1936. No. 537/36.

456.621

Complete Specification Left: April 24, 1936.

Complete Specification Accepted: Nov. 12, 1936.

PROVISIONAL SPECIFICATION

Improvements relating to Slicing Machines

We, BERKEL & PARNALL'S SLICING ACHINE MANUFACTURING COMPANY MANUFACTURING MACHINE LIMITED, of Aden Road, Ponders End, Middlesex, England, a British Company, 5 do hereby declare the nature of this invention, which has been communicated to us by Maatschappij van Berkel's Patent N.V. of 33 Boezemsingel, Rottendam, Holland, a body corporate organised 10 under the laws of Holland, to be as

follows:

This invention relates to machines wherein there is provided, for determination of the slice-thickness, feed-15 mechanism adapted to feed the substance step-by-step across the slicing plane of the knife in the operation of the machine and, in addition, a stationary but adjustable gauge presenting an abutment face arranged beyond and parallel to the slic-ing plane. The arrangement is such that the gauge can be used to give accurate positioning of the substance prepara-tory to operation of the machine, or as 25 an alternative to the feed-mechanism, in which latter event the substance is moved (manually or otherwise) prior to each slicing operation a step forward until it abuts against the gauge.

The invention is confined to slicing machines as above described and of the type wherein the feed-mechanism includes ratchet-and-pawl mechanism mounted on a substance-supporting car-35 riage which is reciprocable on a stationary frame past the knife, and wherein the ratchet-and-pawl mechanism is equipped with an adjustable cam or equivalent device (hereinafter termed for conveni-40 ence a "cam") for regulating the slicethickness by lifting the pawl clear of the ratchet during a part of the pawl's stroke; i.e. the cam controls the angle of engagement of the pawl with the ratchet. The feed-movements are transmitted by a feed-screw-and-nut assembly to a feedtable or other substance-engager guided

for movement across the carriage. In accordance with the invention, the 50 regulating cam on the reciprocatory carriage and the stationary gauge are both operatively associated with a single control member for adjusting them corre-[Price 1/-]

spondingly from a stationary location. The single control member may consist of a hand-member which is located adjacent to the gauge and which can be set into and held in any of a series of determinate positions corresponding to different slice-thicknesses.

The regulating cam may be adjusted

through the intermediary of rack-andpinion devices, and provision may be made for holding it set, following adjustment, in any of a series of posi-tions corresponding to the different gauge

settings.

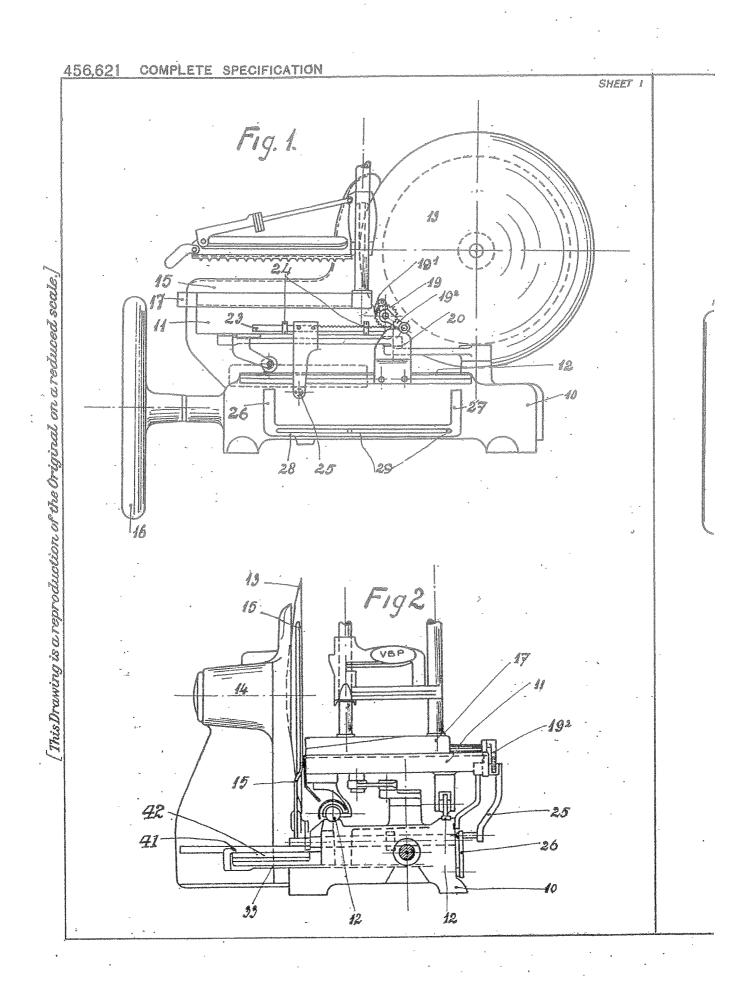
In one embodiment of the invention, the gauge consists of a plate mounted beside the knife and secured to a guiderod slidably mounted in the stationary base constituting a part of the machine The guide-rod is continuously urged by spring means to slide towards a limit position in which the gauge plate is furthest from the slicing plane; i.e. the position giving the greatest slice-thickness. The said spring means consists of a helical spring encircling the guide-rod and pressing against a collar secured thereto. The gauge-plate is constrained to adopt the desired setting, against the urge of the spring, by the control member, which consists of a stationarily fulcrumed hand-lever acting upon the guiderod through a cam plate secured to said lever and a bellcrank lever of which one arm functions as follower to the cam plate and the other arm bears upon the aforesaid collar. The cam-following arm may be provided with a slide-block or a roller to bear upon the cam face. arrangement is such that angular displacement of the controlling hand-lever is accompanied by proportionate displacement of the guide-rod and the gauge plate thereon.

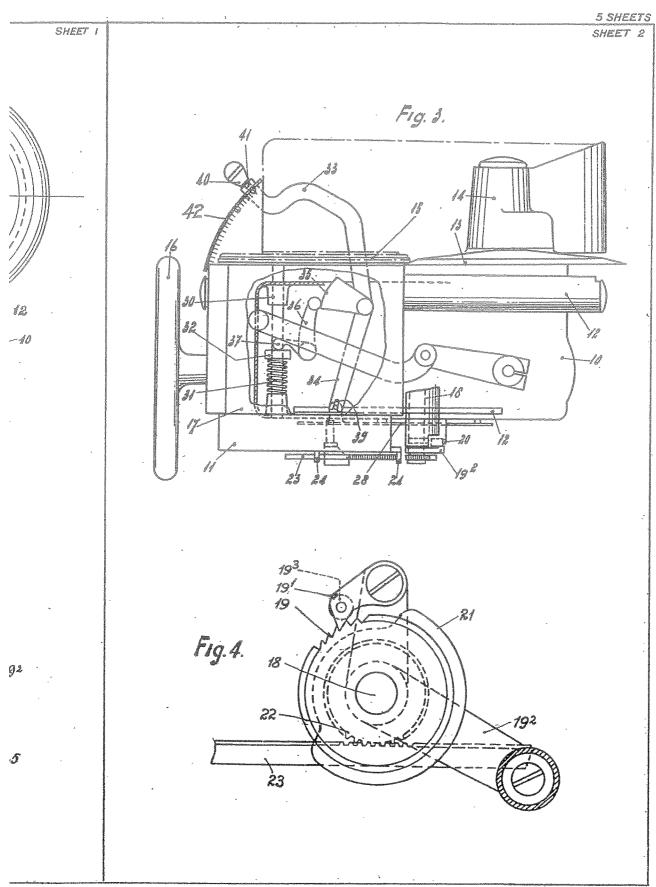
The cam plate is secured preferably adjustably to the hand-lever. For example, the cam plate may be turnably 100 mounted on the fulcrum of the handlever and secured thereto by a pin-and-

slot adjustment device.

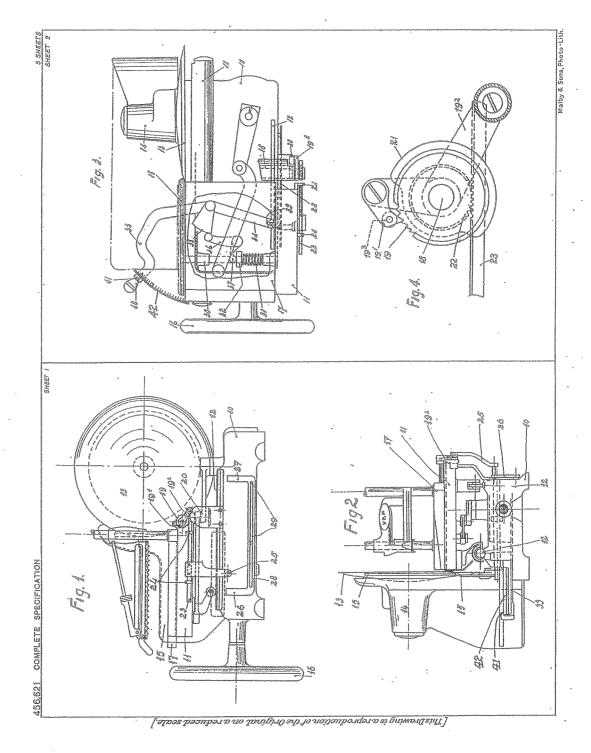
Two spaced stops, which are arranged to operate the feed-mechanism-regula- 105 ting cam on the reciprocatory carriage,

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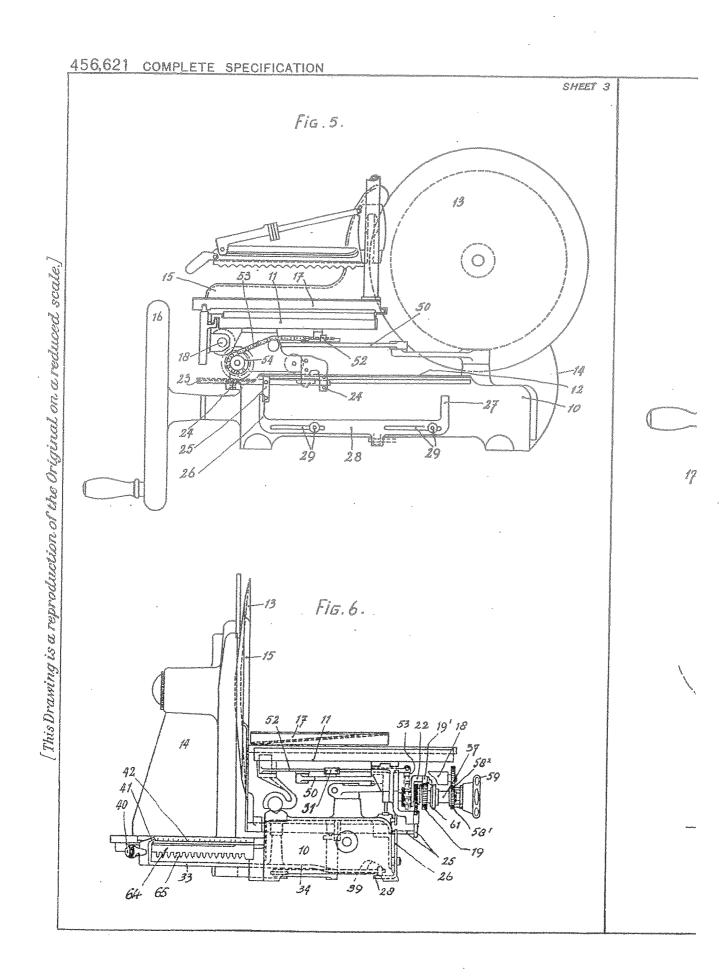


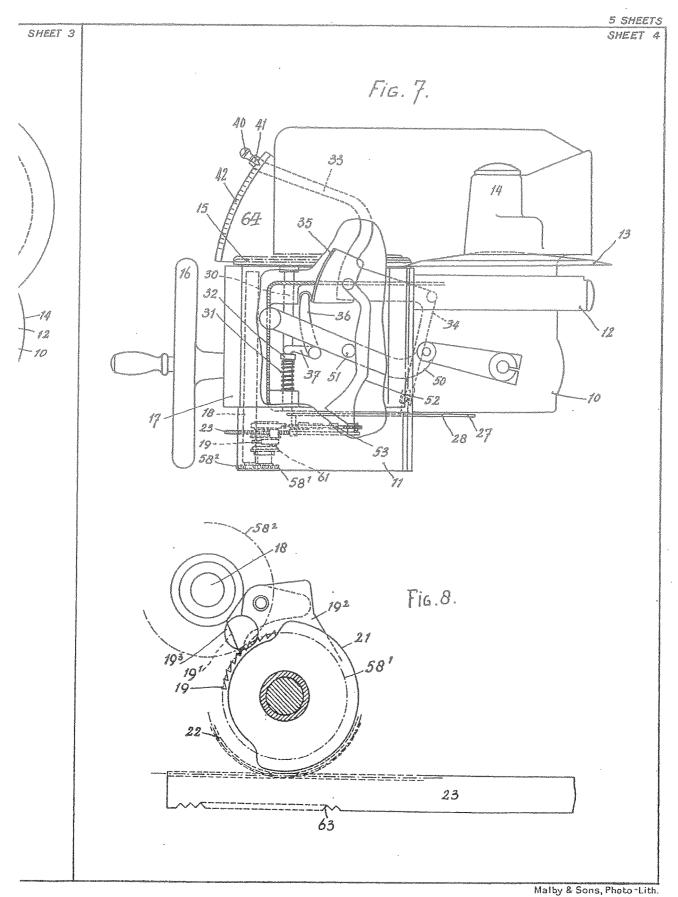


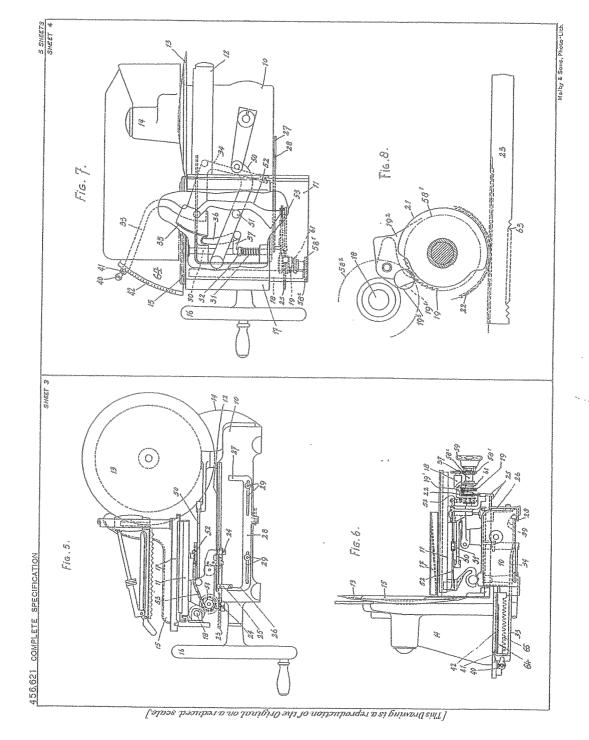
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