Oct. 9, 1956 C. D. GUENTHER 2,765,796

HAIR CUTTING APPARATUS

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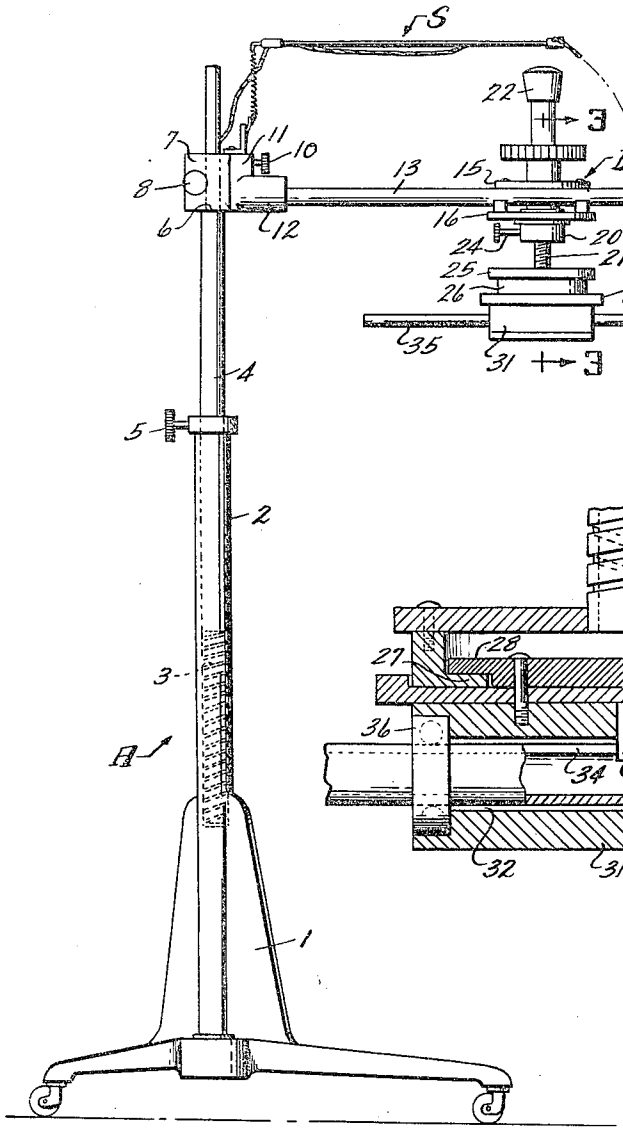
Fig 1



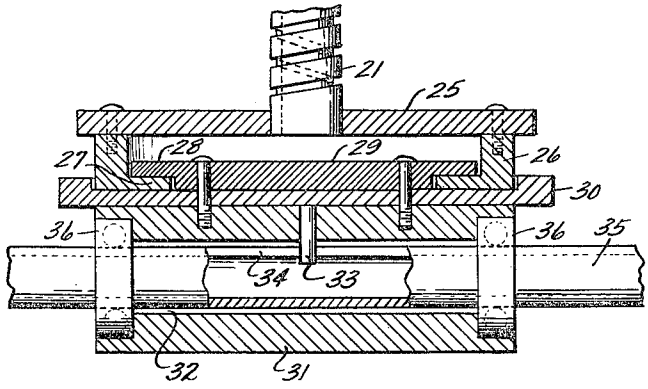


Fig 5

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Fig 3

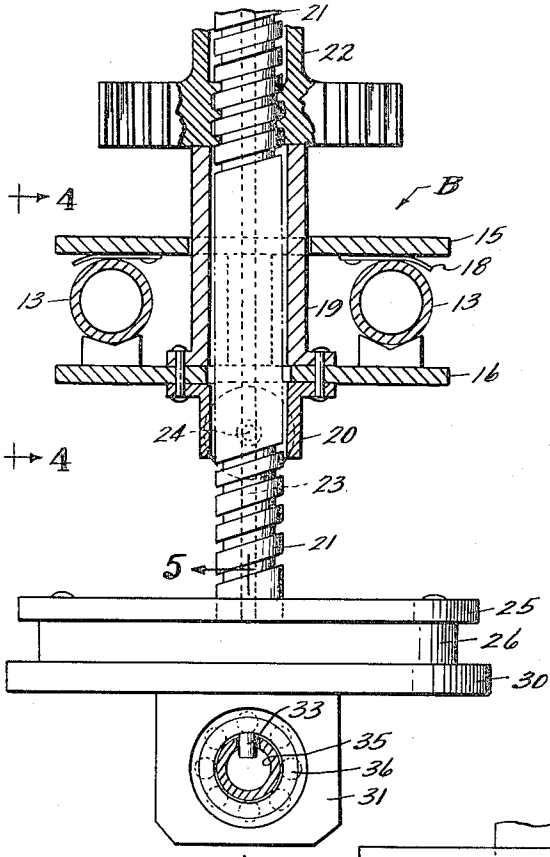
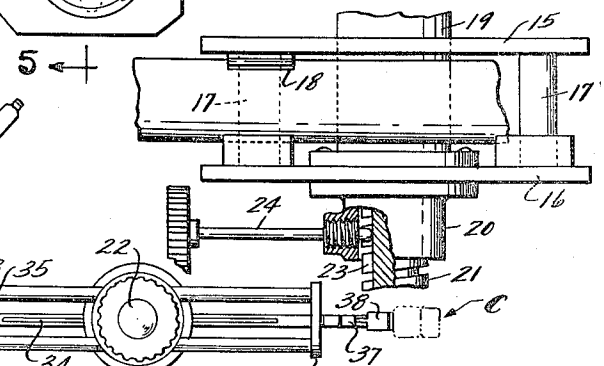


Fig 4



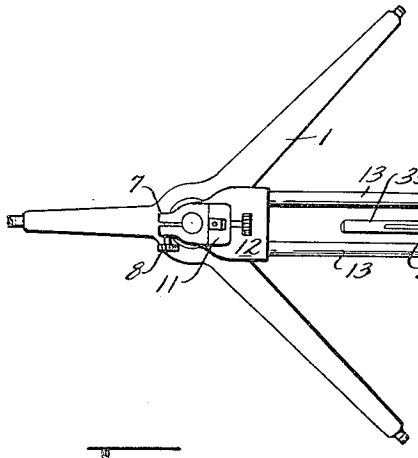


Fig 2

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United States Patent Office 2,765,796 Patented Oct. 9, 1956

2,765,796

HAIR CUTTING APPARATUS

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Application February 14, 1955, Serial No. 488,089

4 Claims. (Cl. 132—45)

This invention relates to a new and unusually novel hair cutting apparatus particularly fabricated for employment in effecting "German Pompadour," "Flat Top," "Crew," or "Burr" type hair cuts. The novel device when applied in use enables a very uniform and very fast hair cutting operation, leaving the hair on the top of the head in a substantially plane condition, lending a neatness and clean cut appearance to the hair of the person having the hair cut which is not possible where a completely manual hair cutting system is employed.

Many tools have been fabricated in the 'barber" art, which is an old art, to assist in cutting hair to the standards of the times. Almost all, if not all of the barber tools in use today, require a manipulation of the hands or fingers of the barber in the hair cutting operation such that the accuracy and neatness of the hair cutting operation is completely dependent on the individual skill of the barber and his physical and mental condition at the moment. The present and subject invention was developed to remove the guesswork involved in cutting and trimming hair on the top of a person's head so that person will be assured of a neat clean appearance, particularly if he favors close cut hair. This is assured by the positive nature of the mechanically provided control means for adjustably establishing a controlled cutting plane for the hair cutter means employed in the invention apparatus whereby hair may be cropped in a matter of seconds to produce a uniform hair plane on the top of the head of a person having his hair cut therewith.

A single practical embodiment of the invention is disclosed herein and consists of a generally mobile, vertically adjustable stand having a horizontal support arm unit releasably secured thereto. Mounted for sliding movement longitudinally of said horizontal support unit is an adapter which supports a hair cutter or clipper assembly in depending relation therefrom and vertically adjustable relative thereto. The hair cutting assembly is mounted for free pivotal movement in a horizontal plane selected by the vertical adjustment thereof. Means are also provided by said hair cutting assembly so mounting the hair cutting element therein to enable reciprocating straight line movement thereof in the selected plane. Thus, the aparatus provides that the hair cutting element employed may be quickly and readily adjusted to operate in any selected plane and to be universally movable within that plane for operation in any selected direction therein. This invention apparatus is uniquely efficient and answers a long felt want in the barber art as will be quite evident from the detailed description thereof herein.

An object of this invention is to provide a new and novel hair cutting apparatus.

Another object of this invention is to provide a new and novel hair cutting apparatus having the hair cutting element therein mechanically adjustable and controllable so as to insure substantial perfection of results in its employment in effecting hair cuts of the German Pompadour type.

A further object of the invention is to provide a new and improved hair cutting apparatus which effectively insures a generally flat uniformity and neatness of appearance to the hair of the person whose hair is being cut thereby, wherein this condition is effected and controlled by mechanical means and is not dependent on the skill of the barber using the apparatus.

An additional object of the invention is to provide a new and novel mechanical hair cutting apparatus providing a mechanically mounted hair cutting or clipping element whereby the hair cutting element is mounted for universal adjustment in any selected plane to insure a uniformly neat plane condition of the hair being cut and wherein this condition is effected in a minimum of time and with a minimum of effort.

Other objects and advantages of the invention will become readily apparent to those versed in the art from the following detailed description of a single practical embodiment thereof, particularly when taken in conjunction with the accompanying drawings wherein:

Fig. 1 shows generally a side view of the apparatus constituting an embodiment of the subject invention;

Fig. 2 is a general top view of the apparatus shown in Fig. 1;

Fig. 3 presents a cross-sectional view of the apparatus of Fig. 1 taken on line 3—3 thereof;

Fig. 4 is a fragmentary view of the mounting adapted for the hair cutting assembly taken on line 4—4 of Fig. 3; and

Fig. 5 is a cross-sectional view of the mounting means for the hair cutting element as taken on line 5—5 of Fig. 3.

The illustrative practical embodiment of the invention presented can best be described with reference to the accompanying drawings. Noting Fig. 1 of the drawings, a mobile stand A is provided and comprises a three legged base unit 1 on casters. A tubular element 2 is secured in said base unit so as to extend vertically therefrom. A coil spring 3 is seated within the tubular element 3 and serves to resiliently support a long pole-like element 4 nested in the tube 2. A set screw 5 is mounted in a threaded aperture adjacent the top of the tubular element 2 for adjustment relative thereto to engage and fix the pole 4 in any desired conditions of elevation or depression relative the tubular element 2. The pole 4 has the upper portion thereof of decreased diameter to provide an abutment 6 on which seats a split collar clamping unit 7 releasably clamped to the pole 4 by a connecting screw 8. To one side of the collar unit 7 and integral therewith is a mounting block to which is secured an adapter block 11 by screws 10. The adapter block 11 has two symmetrically arranged sleeve elements 12 extending horizontally therefrom in a single plane adjacent the bottom edge thereof. Seated in each sleeve 12 is a rod 13 which extends horizontally therefrom. These rods are parallel and integrally connected at their outer ends by a connecting bar 14.

Mounted for sliding movement longitudinally on the rods 13 is an adapter assembly B. This adapter assembly, noting Figs. 3 and 4 of the drawings, comprises two apertured plates 15 and 16 respectively arranged above and below in sliding abutting relation to the rods 13 and connected together by bolts 17. The plate 15 has spring elements 18 secured thereto and interposed as bearing means between it and the upper surfaces of the rods 13, and the plate 16 has V blocks secured thereto and inter-

posed between it and the lower surfaces of the rods 13 to provide bearing means therebetween. A tubular sleeve 19 is bolted to the upper surface of the plate 16 about the aperture therein and extends upwardly through the aperture in the plate 15. An aligned sleeve 20 is bolted to the under surface of the plate 16 to depend therefrom. A threaded rod 21 extends through the axially aligned sleeves 19 and 20 bearing therein. Threadedly engaged with the upper end of the rod 21 is an operating member 22 which seats on the upper end of the sleeve 19 in bearing relation thereto. Thus, by rotation of the operating member 22 the threaded rod can be raised or lowered relative the adapter assembly B, and particularly since a groove 23 is provided vertically of the rod 21 and a threaded pin 24 is mounted in the sleeve 20 to extend into the slot or groove 23 to prevent rotation of the rod 21 as the operating member 22 is rotated. Thus, an easy vertical adjustment of the rod 21 is provided thereby.

To the lower end of the rod 21 is secured a horizontal plate 25 which supports the hair cutter or clipper mounting assembly for pivotal mounting thereof relative thereto. A circular housing 26 having an inwardly extending flange 27 is bolted in depending relation to the plate 25 on assembly. Seated on the flange 27 is bearingly supported the outwardly extending flange 28 of the support plate 29 which has the portion thereof of reduced diameter depending from the housing 26 centrally thereof. Bolted to the lower surface of plate 29 is a cup shaped plate 30 which nests the housing 26 and is in bearing relation thereto. Thus, the connected plates 29 and 30 are supported by the housing 26 with its flange 27 for rotation relative thereto through a full 360 degrees and in a closely and smooth operating bearing relation thereto. Bolted to the undersurface of the connected plates 29 and 30 is a bearing block 31 of a generally rectangular nature which is centrally disposed relative the plate 30. The block 31 has a horizontally extending longitudinal bore therethrough indicated in Fig. 5 of the drawings by the numeral 32. A key 33 is secured in the upper portion of the block 31 centrally thereof and depends into the bore 32 to ride in a slot 34 in a hollow rod 35 mounted for longitudinal but non-rotative movement relative the mounting block 31. Bearings 36 seat in the respective ends of the bore 32 in the block 31 to secure and bearingly support the rod 35 for smooth movement relative the block in a single defined plane.

The hollow rod 35 has secured in the outer end thereof a bifurcated adapter element 37 which is preferably fixed therein and receives an adapter plate 38 extending vertically relative thereto. Secured in fixed relation to the adapter plate 38 is a hair cutter or clipper means of any selected choice and shown in Fig. 1 of the drawings as indicated by the letter C. A support assembly S is shown in Fig. 1 of the drawings to provide means for supporting the electrical cord which may be provided for an electrical hair cutter element C in a clear and unobstructed relation to the apparatus provided. Since this does not have any specific relation to the invention presented herein, the details thereof do not appear to be pertinent.

Thus, it can be readily seen by those versed in the art what a novel and useful inventive apparatus is presented herein. In use the barber can adjust the height of the pole 4 generally to accommodate the height of the patron sitting in the barber chair. The fine adjustment can be effected by operation of the operating member 22 in a quick easy fashion. This establishes the plane in which the hair cutter C will positively operate in insured fashion regardless of the capability of the barber. By the universal adjustability feature of the rod 35 provided by its pivotal mounting assembly, the clipper or cutter element connected to the rod may be moved with the sliding rigged rod 35 in any desired straight line direction relative the head of hair being cut with the greatest of ease and rapidity. And by a simple adjustment of member 22, successive quick plane cuts may be made to quickly produce a complete plane and neat appearance to the hair on top of the head of the patron whose hair is being cut. The control for the movement of the cutter C may be manual or mechanically controlled as desired and in any instance a perfection and quickness of effecting a hair cut is enabled thereby to produce a new and distinct advance in the barber art.

While a single embodiment and application of the invention has been presented herein, many other modifications and applications thereof will be readily apparent therefrom to those versed in the art and such is deemed to be within the scope of the invention as presented herein.

I claim:

1. Hair cutting apparatus comprising, a stand, a horizontally extending support means mounted on said stand for vertical adjustment relative thereto, adapter means mounted on said support means for adjustment longitudinally thereof, control means mounted in said adapter means and vertically adjustable relative thereto, a support plate pivotally related to said control means, guide means mounted on said support plate, a rod mounted in said guide means for straight line movement relative thereto, a hair cutter adapter connected to said rod and extending therefrom for fixing a hair cutter or clipper in secured relation to said rod for movement therewith whereby said cutter may be freely and universally adjusted within a single selected plane for a straight and uniform cut or trim of a head of hair to effect a neat level appearance to the top thereof in quick easy fashion.

2. Hair cutting apparatus for effecting a German Pompadour type of hair cut in easy and assuredly neat uniform fashion comprising, a support means having an arm extending horizontally therefrom, an adapter mounted on said arm for adjustment longitudinally thereof and having a vertically adjustable rod-like member in depending relation relative thereto, a plate member connected to said rod-like member in axial alignment therewith and rotatable relative thereto, a guide housing integrally connected to said plate member and depending therefrom for movement therewith, a shaft mounted in said housing and extending therefrom for reciprocating movement relative thereto, limit means in said housing and cooperating with said shaft to limit the extent of such reciprocating movement, and means secured to said shaft for mounting a hair cutting implement in fixed relation thereto whereby upon selection of a predetermined plane of operation of the hair cutting implement by the barber by appropriate adjustment of the adjustable components, upon reciprocation of the said shaft the hair cutting implement will automatically and in positively secured fashion effect a uniformly plane surface to the head of hair to which it is applied independently of the skill of the barber operating said apparatus.

3. Hair cutting apparatus comprising, a vertical mobile support, a horizontal support mounted for adjustment vertically thereof, a bearing means, means connecting said bearing means to said support in depending relation therefrom, a guide means connected to said bearing means and rotatable relative thereto, a support arm keyed to said guide means and reciprocably movable relative thereto in quick easy fashion, and means connected to said arm for mounting a hair cutting element to one end of said support arm in selected fixed relation thereto whereby a crew or pompadour type hair cut can be effected in a quick simple fashion with superior results regardless of the skill of the barber.

4. Hair cutting apparatus comprising, a support, a platform extending horizontally from said support, an adapter mounted on said platform for adjustment relative thereto in the plane thereof, bearing means connected to said adapter in vertically adjustable relation thereto, mounting means rotatable in said bearing means and arranged in depending relation thereto, a bearing housing

fixed to said mounting means and rotatable therewith, said bearing housing having a longitudinal horizontally extending bore therethrough, a key in said housing extending into said bore, a slotted rod mounted in said bore in keyed relation to said bearing housing, and bearings in said bore and about said rod for free easy reciprocation of said rod relative to said bearing housing and an adapter means connected to said rod for fixedly connecting a hair clipper to said rod in depending relation thereto whereby the hair on the top of a person's head can be quickly cut to effect a uniformly plane condition thereto in a matter of seconds.

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