



Figure 4

verses in motion, it is stopped by the selector latch making contact with the step (E) of the selector crank (104), thus setting the landing position cam (88) for 12" set down.

When a 10" record is to be dropped to the turntable, the diameter of the 10" record isn't great enough to allow the edge of the record to contact the selecting feeler (16); therefore, the selecting feeler stays in a raised position and the selector latch (115) will not engage with step (E) of selector crank (104). This action permits step (E) of selector crank (104) to move past selector latch (115), thus setting the landing position cam (88) for 10" set down.

When a 7" record is dropped to the turntable, the set-down action is the same as for 10" records except that the 7", 10" and 12" set-down control knob is placed in the 7" position. When in this position, the stud of the set-down positioning cam (47) becomes entirely disengaged from the 7" abutment lever (95). This action permits the 7" abutment lever (95) to be moved against the stud of set-down adjusting screw (22) by force exerted by the 7" abutment lever spring (94). Therefore, the tone arm is carried in for 7" set-down by the 7" abutment lever.

The action of main cam (91) moves the tone arm actuating lever (97) in to contact the landing position cam (88). As the actuating lever moves in, it contacts the stud of the set-down adjusting screw (22), thus moving the tone arm in for set down.

For 7" and 10" records, the finger of the tone arm actuating lever will contact the landing position cam (88) at point (G), and for 12" records, it will contact the landing position cam at point (F).

The cam lever (92) now rides down the incline of main cam (91), lowering the tone arm to the record.

At this time, the roller located nearest the hub on top of main drive gear (82) contacts the clutch act-

uator lever (55). This action latches the clutch plate so as to disengage the clutch pinion (53) from the drive gear (128), thus completing the change cycle.

PAUSE ACTION

When the control knob is placed in the "Pause" position, the pause lever (78) moves in between main drive gear (82) and pause gear (83). As the changer starts its next cycle, both gears (82) and (83) are turned by clutch pinion (53) until the spring loaded stud, located on main drive gear (82), comes in contact with the pause lever (78). When this takes place, the stud of the main drive gear rides up on top of pause lever (78) thus, disengaging the stud from the pause gear (83). Since the main drive gear is driven by the pause gear thru this stud, the rotation of the main gear stops, although the pause gear continues to turn. The main cam (91) which is fastened to the main gear (82) also stops. The finger on the bottom of the pause gear strikes the star wheel (79) on every revolution of the pause gear. The star wheel turns the pinion gear (79) which turns the main gear (82) a definite amount. This continues until the stud of the main gear has been moved far enough to ride off of the top of pause lever (78). When this happens, the stud of the main gear engages with the pause gear again, thus continuing the change cycle.

A pause of 5 minutes maximum duration at 78 RPM can be introduced between two records. The duration of the pause is determined by the width of the pause lever (78) at the point where the stud of main gear (82) rides. When the control knob is in the 1 minute pause position the stud of the main drive gear rides across the narrow tip of the pause lever (78) whereas, when in the 5 minute position the stud rides across the widest part of the pause lever.

REPEAT ACTION

When the control knob is turned to the "Repeat" position, the repeat control crank (41) moves the record ejector lever (43) out a definite amount so that the