1	MT GOEL I ANEOUG	31	Reciprocating clutch
1 2 D	MISCELLANEOUS	29 A	Tie rod tensioner
2 R 3 R	HOISTING TRUCK	32	AXLE-LUBRICATING JACK
3 K	.Tilting load support	33	CAR JOURNAL BOX LIFTING
-	Service station type	34	.Suspended lifter
3 C 4 R	Platform type	35	CAR-PUSHER TYPE
	.Cable hoist	36	Pinch bar
4 B	Service station type	37	Rail clamping
4 C	Platform type	38	Pivoted wheel engaging member
5 R	Inclined plane or wedge	39	DOOR BRACE
5 B	Service station type	40	PRINTER'S QUOINS
5 C	Platform type	41	Screw
6 R	Rack and pinion or segment	42	.Wedge
6 B	Service station type	43	RAIL OR TIE SHAFTER
6 C	Platform type	44	.Single throw lever
7 R	Screw	45	VEHICLE-BODY LIFTERS
7 B	Service station type	46	Lever and drum
7 C	Platform type	47	.Cable hoist
8 R	.Single throw lever	48	Vehicle attached drum
9 R	Toggle	49	.Swinging side bars
9 B	Service station type	50	Single fixed pivot
9 C	Platform type	50.1	RESILIENT TIRE-CASING SPREADERS
10 R	Parallelogram bars	50.2	Spreader and tire casing
10 B	Service station type	30.2	relatively movable or
10 C	Platform type		rotatably mounted
8 B	Service station type	50.3	.Fluid pressure operated
8 C	Platform type		
		50.4	With tire casing support
2 B	.Service station type	50.4 134.3 F	.With tire casing support  R METHOD OR APPARATUS FOR PLACEMENT
2 C	.Platform type		METHOD OR APPARATUS FOR PLACEMENT
	.Platform type METALLIC SPRING STRETCHER AND/OR	134.3 F	METHOD OR APPARATUS FOR PLACEMENT OF CONDUCTIVE WIRE
2 C	.Platform type METALLIC SPRING STRETCHER AND/OR COMPRESSOR (E.G., LEAF,		R METHOD OR APPARATUS FOR PLACEMENT OF CONDUCTIVE WIRE .By fluid pressure differential
2 C 10.5	.Platform type  METALLIC SPRING STRETCHER AND/OR  COMPRESSOR (E.G., LEAF,  HELICAL, OR COIL SPRINGS)	134.3 F	METHOD OR APPARATUS FOR PLACEMENT OF CONDUCTIVE WIRE
2 C 10.5	.Platform type  METALLIC SPRING STRETCHER AND/OR  COMPRESSOR (E.G., LEAF,  HELICAL, OR COIL SPRINGS)  FLOOR JACK TYPE	134.3 F	R METHOD OR APPARATUS FOR PLACEMENT OF CONDUCTIVE WIRE  .By fluid pressure differential in conduit (e.g., parachute sucked through conduit)
2 C 10.5	.Platform type  METALLIC SPRING STRETCHER AND/OR  COMPRESSOR (E.G., LEAF,  HELICAL, OR COIL SPRINGS)  FLOOR JACK TYPE  .Rack and pinion or segment	134.3 F	R METHOD OR APPARATUS FOR PLACEMENT OF CONDUCTIVE WIRE  .By fluid pressure differential in conduit (e.g., parachute
2 C 10.5	.Platform type  METALLIC SPRING STRETCHER AND/OR  COMPRESSOR (E.G., LEAF,  HELICAL, OR COIL SPRINGS)  FLOOR JACK TYPE  .Rack and pinion or segment .Screw	134.3 F	R METHOD OR APPARATUS FOR PLACEMENT OF CONDUCTIVE WIRE  .By fluid pressure differential in conduit (e.g., parachute sucked through conduit) .Tractor for pulling wire (e.g.,
2 C 10.5 11 12 13 14	.Platform type  METALLIC SPRING STRETCHER AND/OR	134.3 F 134.4	R METHOD OR APPARATUS FOR PLACEMENT OF CONDUCTIVE WIRE  .By fluid pressure differential in conduit (e.g., parachute sucked through conduit)  .Tractor for pulling wire (e.g., battery-powered)
2 C 10.5 11 12 13 14 15	.Platform type  METALLIC SPRING STRETCHER AND/OR     COMPRESSOR (E.G., LEAF,     HELICAL, OR COIL SPRINGS)  FLOOR JACK TYPE  .Rack and pinion or segment .Screw .Step-by-step traveling member .Single-throw lever and bar	134.3 F 134.4	R METHOD OR APPARATUS FOR PLACEMENT OF CONDUCTIVE WIRE  .By fluid pressure differential in conduit (e.g., parachute sucked through conduit) .Tractor for pulling wire (e.g., battery-powered)Step-by-step type (e.g., by
2 C 10.5 11 12 13 14 15 16	.Platform type  METALLIC SPRING STRETCHER AND/OR  COMPRESSOR (E.G., LEAF, HELICAL, OR COIL SPRINGS)  FLOOR JACK TYPE  .Rack and pinion or segment .Screw .Step-by-step traveling member .Single-throw lever and barSliding bar	134.3 F 134.4 134.5 134.6 134.7	R METHOD OR APPARATUS FOR PLACEMENT OF CONDUCTIVE WIRE  .By fluid pressure differential in conduit (e.g., parachute sucked through conduit)  .Tractor for pulling wire (e.g., battery-powered) Step-by-step type (e.g., by camming against messenger)
2 C 10.5 11 12 13 14 15 16 17	.Platform type  METALLIC SPRING STRETCHER AND/OR  COMPRESSOR (E.G., LEAF, HELICAL, OR COIL SPRINGS)  FLOOR JACK TYPE  .Rack and pinion or segment .Screw  .Step-by-step traveling member .Single-throw lever and barSliding bar .Single throw lever	134.3 F 134.4 134.5 134.6 134.7 134.3 F	METHOD OR APPARATUS FOR PLACEMENT OF CONDUCTIVE WIRE  .By fluid pressure differential   in conduit (e.g., parachute   sucked through conduit)  .Tractor for pulling wire (e.g.,   battery-powered) Step-by-step type (e.g., by   camming against messenger)  .Sectional members for fishing
2 C 10.5 11 12 13 14 15 16 17	.Platform type  METALLIC SPRING STRETCHER AND/OR  COMPRESSOR (E.G., LEAF,  HELICAL, OR COIL SPRINGS)  FLOOR JACK TYPE  .Rack and pinion or segment .Screw  .Step-by-step traveling member .Single-throw lever and bar  .Sliding bar .Single throw lever  NAIL EXTRACTOR TYPE	134.3 F 134.4  134.5  134.6  134.7  134.3 F 134.3 F	R METHOD OR APPARATUS FOR PLACEMENT OF CONDUCTIVE WIRE  .By fluid pressure differential in conduit (e.g., parachute sucked through conduit)  .Tractor for pulling wire (e.g., battery-powered) Step-by-step type (e.g., by camming against messenger) .Sectional members for fishing PA.Utility pole guide
2 C 10.5 11 12 13 14 15 16 17 18 19	.Platform type  METALLIC SPRING STRETCHER AND/OR  COMPRESSOR (E.G., LEAF,  HELICAL, OR COIL SPRINGS)  FLOOR JACK TYPE  .Rack and pinion or segment .Screw  .Step-by-step traveling member .Single-throw lever and barSliding bar .Single throw lever  NAIL EXTRACTOR TYPE .Hammer and anvil	134.3 F 134.4  134.5  134.6  134.7  134.3 F 134.3 F 134.3 F	R METHOD OR APPARATUS FOR PLACEMENT OF CONDUCTIVE WIRE  .By fluid pressure differential in conduit (e.g., parachute sucked through conduit)  .Tractor for pulling wire (e.g., battery-powered) Step-by-step type (e.g., by camming against messenger)  .Sectional members for fishing PA.Utility pole guide CL.Cable lashing
2 C 10.5 11 12 13 14 15 16 17 18 19 20	.Platform type  METALLIC SPRING STRETCHER AND/OR     COMPRESSOR (E.G., LEAF,     HELICAL, OR COIL SPRINGS)  FLOOR JACK TYPE .Rack and pinion or segment .Screw .Step-by-step traveling member .Single-throw lever and bar .Sliding bar .Single throw lever  NAIL EXTRACTOR TYPE .Hammer and anvil .Screw	134.3 F 134.4  134.5  134.6  134.7  134.3 F 134.3 F 134.3 F	R METHOD OR APPARATUS FOR PLACEMENT OF CONDUCTIVE WIRE  .By fluid pressure differential in conduit (e.g., parachute sucked through conduit) .Tractor for pulling wire (e.g., battery-powered)Step-by-step type (e.g., by camming against messenger) .Sectional members for fishing PA.Utility pole guide CL.Cable lashing TT.Conduit snakes
2 C 10.5 11 12 13 14 15 16 17 18 19 20 21	.Platform type  METALLIC SPRING STRETCHER AND/OR     COMPRESSOR (E.G., LEAF,     HELICAL, OR COIL SPRINGS)  FLOOR JACK TYPE .Rack and pinion or segment .Screw .Step-by-step traveling member .Single-throw lever and bar .Sliding bar .Single throw lever  NAIL EXTRACTOR TYPE .Hammer and anvil .Screw .Single throw lever	134.3 F 134.4  134.5  134.6  134.7 134.3 F 134.3 F 134.3 F	R METHOD OR APPARATUS FOR PLACEMENT OF CONDUCTIVE WIRE  .By fluid pressure differential in conduit (e.g., parachute sucked through conduit) .Tractor for pulling wire (e.g., battery-powered)Step-by-step type (e.g., by camming against messenger) .Sectional members for fishing PA.Utility pole guide CL.Cable lashing TT.Conduit snakes CC.Submarine cable
2 C 10.5 11 12 13 14 15 16 17 18 19 20 21 22	.Platform type  METALLIC SPRING STRETCHER AND/OR     COMPRESSOR (E.G., LEAF,     HELICAL, OR COIL SPRINGS)  FLOOR JACK TYPE  .Rack and pinion or segment .Screw .Step-by-step traveling member .Single-throw lever and bar .Sliding bar .Single throw lever  NAIL EXTRACTOR TYPE .Hammer and anvil .Screw .Single throw lever .Lever and pivoted jaw grip	134.3 F 134.4  134.5  134.6  134.7 134.3 F 134.3 F 134.3 F	R METHOD OR APPARATUS FOR PLACEMENT OF CONDUCTIVE WIRE  .By fluid pressure differential in conduit (e.g., parachute sucked through conduit) .Tractor for pulling wire (e.g., battery-powered)Step-by-step type (e.g., by camming against messenger) .Sectional members for fishing PA.Utility pole guide CL.Cable lashing TT.Conduit snakes CC.Submarine cable PORTABLE IMPLEMENTS OR APPARATUS
2 C 10.5 11 12 13 14 15 16 17 18 19 20 21 22 23	.Platform type  METALLIC SPRING STRETCHER AND/OR     COMPRESSOR (E.G., LEAF,     HELICAL, OR COIL SPRINGS)  FLOOR JACK TYPE  .Rack and pinion or segment .Screw .Step-by-step traveling member .Single-throw lever and bar .Sliding bar .Single throw lever  NAIL EXTRACTOR TYPE .Hammer and anvil .Screw .Single throw lever .Lever and pivoted jaw grip .Multiple jaw grip	134.3 F 134.4  134.5  134.6  134.7 134.3 F 134.3 F 134.3 F	R METHOD OR APPARATUS FOR PLACEMENT OF CONDUCTIVE WIRE  .By fluid pressure differential in conduit (e.g., parachute sucked through conduit) .Tractor for pulling wire (e.g., battery-powered)Step-by-step type (e.g., by camming against messenger) .Sectional members for fishing PA.Utility pole guide CL.Cable lashing TT.Conduit snakes CC.Submarine cable PORTABLE IMPLEMENTS OR APPARATUS FOR TENSIONING FLEXIBLE
2 C 10.5 11 12 13 14 15 16 17 18 19 20 21 22 23 24	METALLIC SPRING STRETCHER AND/OR COMPRESSOR (E.G., LEAF, HELICAL, OR COIL SPRINGS) FLOOR JACK TYPE .Rack and pinion or segment .Screw .Step-by-step traveling member .Single-throw lever and bar .Sliding bar .Single throw lever NAIL EXTRACTOR TYPE .Hammer and anvil .Screw .Single throw lever .Lever and pivoted jaw grip .Multiple jaw gripCam or wedge actuated	134.3 F 134.4  134.5  134.6  134.7 134.3 F 134.3 F 134.3 F	OF CONDUCTIVE WIRE  .By fluid pressure differential in conduit (e.g., parachute sucked through conduit)  .Tractor for pulling wire (e.g., battery-powered) Step-by-step type (e.g., by camming against messenger)  .Sectional members for fishing PA.Utility pole guide  CL.Cable lashing  TT.Conduit snakes  CC.Submarine cable  PORTABLE IMPLEMENTS OR APPARATUS  FOR TENSIONING FLEXIBLE  MATERIAL OR FOR EXTRACTING
2 C 10.5 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	METALLIC SPRING STRETCHER AND/OR COMPRESSOR (E.G., LEAF, HELICAL, OR COIL SPRINGS) FLOOR JACK TYPE .Rack and pinion or segment .Screw .Step-by-step traveling member .Single-throw lever and bar .Sliding bar .Sliding bar .Single throw lever NAIL EXTRACTOR TYPE .Hammer and anvil .Screw .Single throw lever .Lever and pivoted jaw gripMultiple jaw gripCam or wedge actuatedClaw bar	134.3 F 134.5 134.6 134.7 134.3 F 134.3 F 134.3 F 134.3 F	OF CONDUCTIVE WIRE  .By fluid pressure differential in conduit (e.g., parachute sucked through conduit)  .Tractor for pulling wire (e.g., battery-powered) Step-by-step type (e.g., by camming against messenger)  .Sectional members for fishing  PA.Utility pole guide  CL.Cable lashing  TT.Conduit snakes  CC.Submarine cable  PORTABLE IMPLEMENTS OR APPARATUS  FOR TENSIONING FLEXIBLE  MATERIAL OR FOR EXTRACTING  STUMPS OR POLES
2 C 10.5 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 R	METALLIC SPRING STRETCHER AND/OR COMPRESSOR (E.G., LEAF, HELICAL, OR COIL SPRINGS) FLOOR JACK TYPE .Rack and pinion or segment .Screw .Step-by-step traveling member .Single-throw lever and bar .Sliding bar .Single throw lever NAIL EXTRACTOR TYPE .Hammer and anvil .Screw .Single throw lever .Lever and pivoted jaw gripMultiple jaw gripCam or wedge actuatedClaw barHammer	134.3 F 134.5 134.6 134.7 134.3 F 134.3 F 134.3 F 134.3 F	OF CONDUCTIVE WIRE  .By fluid pressure differential in conduit (e.g., parachute sucked through conduit)  .Tractor for pulling wire (e.g., battery-powered) Step-by-step type (e.g., by camming against messenger)  .Sectional members for fishing  PA.Utility pole guide  CL.Cable lashing  TT.Conduit snakes  GC.Submarine cable  PORTABLE IMPLEMENTS OR APPARATUS FOR TENSIONING FLEXIBLE MATERIAL OR FOR EXTRACTING STUMPS OR POLES  .Material comprises resilient floor covering (e.g., carpet)Including fluid or spring
2 C 10.5 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 R 26 E	METALLIC SPRING STRETCHER AND/OR COMPRESSOR (E.G., LEAF, HELICAL, OR COIL SPRINGS) FLOOR JACK TYPE .Rack and pinion or segment .Screw .Step-by-step traveling member .Single-throw lever and bar .Sliding bar .Single throw lever NAIL EXTRACTOR TYPE .Hammer and anvil .Screw .Single throw lever .Lever and pivoted jaw grip .Multiple jaw gripCam or wedge actuatedClaw barHammerExtensible fulcrum	134.3 F 134.5 134.6 134.7 134.3 F 134.	OF CONDUCTIVE WIRE  .By fluid pressure differential in conduit (e.g., parachute sucked through conduit)  .Tractor for pulling wire (e.g., battery-powered) Step-by-step type (e.g., by camming against messenger)  .Sectional members for fishing  PA.Utility pole guide  CL.Cable lashing  TT.Conduit snakes  GC.Submarine cable  PORTABLE IMPLEMENTS OR APPARATUS  FOR TENSIONING FLEXIBLE  MATERIAL OR FOR EXTRACTING  STUMPS OR POLES  .Material comprises resilient  floor covering (e.g., carpet)
2 C 10.5 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 R 26 E 27	METALLIC SPRING STRETCHER AND/OR COMPRESSOR (E.G., LEAF, HELICAL, OR COIL SPRINGS) FLOOR JACK TYPE Rack and pinion or segment Screw Step-by-step traveling member Single-throw lever and bar Single throw lever NAIL EXTRACTOR TYPE Hammer and anvil Screw Single throw lever Lever and pivoted jaw grip Multiple jaw grip Cam or wedge actuated Claw bar Hammer Extensible fulcrum Pivoted fulcrum member	134.3 F 134.5 134.6 134.7 134.3 F 134.3 F 134.3 F 134.3 F 134.3 S 199	OF CONDUCTIVE WIRE  .By fluid pressure differential in conduit (e.g., parachute sucked through conduit)  .Tractor for pulling wire (e.g., battery-powered) Step-by-step type (e.g., by camming against messenger)  .Sectional members for fishing  PA.Utility pole guide  CL.Cable lashing  TT.Conduit snakes  GC.Submarine cable  PORTABLE IMPLEMENTS OR APPARATUS FOR TENSIONING FLEXIBLE MATERIAL OR FOR EXTRACTING STUMPS OR POLES  .Material comprises resilient floor covering (e.g., carpet)Including fluid or spring
2 C 10.5 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 R 26 E 27 28	METALLIC SPRING STRETCHER AND/OR COMPRESSOR (E.G., LEAF, HELICAL, OR COIL SPRINGS) FLOOR JACK TYPE Rack and pinion or segment Screw Step-by-step traveling member Single-throw lever and bar Single throw lever NAIL EXTRACTOR TYPE Hammer and anvil Screw Single throw lever Lever and pivoted jaw grip Multiple jaw grip Cam or wedge actuated Claw bar Hammer Extensible fulcrum Pivoted fulcrum member STAPLE PULLER	134.3 F 134.5 134.6 134.7 134.3 F 134.	OF CONDUCTIVE WIRE  .By fluid pressure differential in conduit (e.g., parachute sucked through conduit) .Tractor for pulling wire (e.g., battery-powered)Step-by-step type (e.g., by camming against messenger) .Sectional members for fishing .T.Conduit pole guide .C.Cable lashing .T.Conduit snakes .C.Submarine cable  PORTABLE IMPLEMENTS OR APPARATUS FOR TENSIONING FLEXIBLE MATERIAL OR FOR EXTRACTING STUMPS OR POLES .Material comprises resilient floor covering (e.g., carpet)Including fluid or spring driven cylinderIncluding force transmitting cable and driven, rotatable,
2 C 10.5 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 R 26 E 27 28 28.5	METALLIC SPRING STRETCHER AND/OR COMPRESSOR (E.G., LEAF, HELICAL, OR COIL SPRINGS) FLOOR JACK TYPE .Rack and pinion or segment .Screw .Step-by-step traveling member .Single-throw lever and bar .Sliding bar .Single throw lever NAIL EXTRACTOR TYPE .Hammer and anvil .Screw .Single throw lever .Lever and pivoted jaw gripMultiple jaw gripCam or wedge actuatedClaw barHammerExtensible fulcrumPivoted fulcrum member STAPLE PULLER THILL-COUPLING JACK	134.3 F 134.5 134.6 134.7 134.3 F 134.	R METHOD OR APPARATUS FOR PLACEMENT OF CONDUCTIVE WIRE  .By fluid pressure differential in conduit (e.g., parachute sucked through conduit) .Tractor for pulling wire (e.g., battery-powered)Step-by-step type (e.g., by camming against messenger) .Sectional members for fishing PA.Utility pole guide PL.Cable lashing PT.Conduit snakes SC.Submarine cable PORTABLE IMPLEMENTS OR APPARATUS FOR TENSIONING FLEXIBLE MATERIAL OR FOR EXTRACTING STUMPS OR POLES .Material comprises resilient floor covering (e.g., carpet)Including fluid or spring driven cylinderIncluding force transmitting
2 C 10.5 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 R 26 E 27 28	METALLIC SPRING STRETCHER AND/OR COMPRESSOR (E.G., LEAF, HELICAL, OR COIL SPRINGS) FLOOR JACK TYPE Rack and pinion or segment Screw Step-by-step traveling member Single-throw lever and bar Single throw lever NAIL EXTRACTOR TYPE Hammer and anvil Screw Single throw lever Lever and pivoted jaw grip Multiple jaw grip Cam or wedge actuated Claw bar Hammer Extensible fulcrum Pivoted fulcrum member STAPLE PULLER	134.3 F 134.5 134.6 134.7 134.3 F 134.	OF CONDUCTIVE WIRE  .By fluid pressure differential in conduit (e.g., parachute sucked through conduit) .Tractor for pulling wire (e.g., battery-powered)Step-by-step type (e.g., by camming against messenger) .Sectional members for fishing .T.Conduit pole guide .C.Cable lashing .T.Conduit snakes .C.Submarine cable  PORTABLE IMPLEMENTS OR APPARATUS FOR TENSIONING FLEXIBLE MATERIAL OR FOR EXTRACTING STUMPS OR POLES .Material comprises resilient floor covering (e.g., carpet)Including fluid or spring driven cylinderIncluding force transmitting cable and driven, rotatable,

# 254 - 2 CLASS 254 IMPLEMENTS OR APPARATUS FOR APPLYING PUSHING OR PULLING FORCE

203	Including driven, rotatable, floor covering engaging and	225	With material or cable contacting infeed guide
	pulling drum	226	Rotatable pulley wheel element
204 205	Including screw driveIncluding rack and pinion, or	227	With ground-engaging support means
203	pinion segment, drive	228	.Including expansible chamber
206	Including ratchet bar and	220	fluid motor drive
200	driving pawl drive	229	.Including worm and worm wheel
207	Having plural, disparate,	229	gear drive
207	driving pawls	230	.Includng rack and pinion, or
208	Including rotatable, pulley	230	pinion segment, drive
200	wheel element and cable	231	.Including screw drive
209	Including force transmitting,	232	Plural screws
207	hand held and operated, lever	232	
210	With means attached thereto	233	Having plural, oppositely
210	for sequentially, gripping,	234	shifting, threaded riders
	shifting, and releasing bar	234	Having plural, oppositely
	component	235	shifting, threaded riders
211	With floor covering clamping	235	Having ratchet wheel and pawl
211	means attached to lever	236	for driving screw
212	Having linearly shifting,	230	Having intermeshing gears for
212	guided component attached	237	driving screw
	thereto	237	.Including ratchet bar and
213	.Including rotatably driven drum	220	driving pawl drive
213	for engaging either material	238	Having plural, disparate,
	or force transmitting cable	239	driving pawlsPlural ratchet formations
214	Plural drums or drum with	240	
	plural distinct sections	241	Facing opposite directions
215	Juxtaposed to material or	241	.Including intermeshing gear
210	cable at single locus	242	drive
216	Having pressure element spaced	242	.Including rotatable, pulley wheel element and cable
-	therefrom to confine material	243	
	or cable thereagainst	243	.Including either force transmitting, hand held and
217	Having ratchet wheel and		operated lever or animal
	interengaging pawl for driving		powered sweep
	drum	244	Implement or apparatus includes
218	Pawl pivots about fixed point	244	bar component having plural
	on drive handle		holes and removable
219	Having intermeshing gears for		cooperating pins selectively
	driving drum		engagable by lever
220	Worm and worm wheel	245	With means attached thereto for
221	With projections or apertures		sequentially gripping,
	on drum for engagement with		shifting, and releasing bar
	complementary formations on		component
	material or cable	246	Having linearly shifting,
222	With means for preventing or		guided component attached
	retarding rotation in at least		thereto
	one direction	247	With ratchet formation and
223	$\ldots$ Ratchet wheel or formation and		locking pawl for maintaining
	pawl		relative positioning
224	With adjustable gripping device	248	With additional, hand held
	for attaching drum to rigid,		lever pivotally attached
	in situ structure		thereto for applying pulling
			force in opposite direction

249	Having position locking means between levers	425 426	Gear driven .Cable actuated
250	With camming means thereon, and	427	.Rack and pinion
	pressure element spaced	264	APPARATUS FOR HAULING OR HOISTING
	therefrom to confine material,		LOAD, INCLUDING DRIVEN DEVICE
	or force transmitting cable, thereagainst		WHICH CONTACTS AND PULLS ON CABLE
251	With material, article, or	265	.Device includes driven,
	force transmitting cable	203	flexible, cable contacting
	clamping means attached to and		belt
	shifting with lever	266	.Device includes rotatably
252	Including cooperating,		driven, cable contacting drum
	relatively stationary means	267	Having rotational speed
	for intermittently locking		governor for generating
	material or cable		control impulse to rotation
253	Plural clamping means		retarding means or drive
254	Alternately clamping and	268	Having mechanism, actuated by
	pulling on material or cable		changes in position of drum
255	Attached by flexible		relative to another component
	connector		of device, for generating
256	With material, article, or		control impulse to rotation
	force transmitting cable		retarding means or drive
	engaging means movably	269	Having stationary mechanism,
	attached to and shifting with		actuated by load or other
0.5.5	lever		obstruction on and traveling
257	Including cooperating,		with cable, for generating
	relatively stationary means		control impulse to rotation
	for intermittently locking material or cable	270	retarding means or driveHaving cable contacted,
258	Plural, movably attached	270	supported, or attached
230	engaging means		mechanism for generating
259	Alternately engaging and		control impulse to retarding
233	pulling on material or cable		means or drive
260	Attached by flexible	271	With cable contacting
	connector		component, on or adjacent to
261	With means pivotally connected		circumference of drum, shifted
	to lever and adapted to engage		by segment of wound cable
	rigid, in situ structure	272	With cable deflecting or path
262	.Including adjustable gripping		defining component shifted by
	device for attaching implement	0.70	cable when tension varies
	or apparatus to rigid, in situ	273	Electricity or fluid utilized
	structure	074	in transmittal of impulse
263	.Including ground engaging means	274	Having mechanism, linked to
	for supporting implement or		<pre>drum or rotating element of drive, for generating control</pre>
	apparatus in plural,		impulse to rotation retarding
84	vertically spaced positions TRAVERSING JACK		means or motor when torque on
85	.Screw		drum varies
418	VEHICLE ATTACHED JACK	275	Electricity utilized in
419	.Semi-trailer landing gear		transmittal or impulse
420	Attached to trailer tongue	276	Having mechanism, linked to
421	.Turntable		drum and actuated by number of
422	.Rocking lever		drum rotations, for generating
423	.Hydraulic or pneumatic		control impulse to rotation
424	.Screw actuated		retarding means or drive

## 254 - 4 CLASS 254 IMPLEMENTS OR APPARATUS FOR APPLYING PUSHING OR PULLING FORCE

277	With fluid or resilient shock	300	With frictional brake
	absorbing or tension		assembly mechanically linked
	maintaining means attached to,		to, and operationally
	supported by, or supporting		influenced by, clutch
	guiding structure for cable	301	With additional axially
278	Plural drums or drum with		shiftable clutch mechanism
	plural distinct sections		mechanically linked to, and
279	With vehicle for supporting at		operationally influenced by,
_	least one drum		first clutch
280	Having rotatable, cable	302	Alternately transmitting
200	_	302	power
	guiding, pulley wheel element	303	Fluid operated actuator
0.01	spaced from drums	303	
281	Element repositionable	204	shifts component
	relative to at least one of	304	Components having
	the drums		frictional contact surface
282	Drive for at least one drum	305	Truncated cone shaped
	includes motor of vehicle	306	Also including ratchet wheel
283	Having rotatable, cable		and driving pawl
	guiding, pulley wheel element	307	Plural driving pawls
	spaced from drums	308	Attached to rotatable disk
284	Element repositionable	300	or shaft
201	relative to at least one of	309	Also including clutch
	the drums	309	
285	Plural elements		mechanism having rotatable,
			radially shiftable, power
286	Plural elements	24.0	transmitting component
287	Juxtaposed to cable at single	310	With means for preventing or
	locus		retarding rotation of one or
288	With means affixing at least		more drums in at least one
	one drum to supporting base		direction
	and allowing movement between	311	Including sprocket wheel and
	drum and base		chain in drive
289	Movement engages or	312	Including power transmitting
	disengages drum from drive		pulley and rope or belt either
290	Plural, distinct, drive motors		in drive or in cable return
291	Noncompressible fluid		means
292	Electric	313	Including contacting friction
292		313	wheels having noncollinear
293	Each drum having plural,		axes of rotation in drive
	distinct drive sources or	21/	
	discrete drive trains	314	Including expansible,
294	Having common drive source or		noncombustible, fluid motor in
	mechanically interlinked drive		drive (e.g., air, steam)
	trains	315	Including noncompressible
295	Including intermeshing gears		fluid motor or pump in drive
	in drive	316	Including electric motor in
296	Worm and worm wheel		drive
297	Epicyclic gear train having	317	Including clutch mechanism in
201	sun, intermediate (e.g.,		drive having coaxial,
	planet), and ring gears		rotatable, relatively
200			shiftable axially, power
298	Shiftable into and out of		transmitting components
000	intermeshing engagement	318	With frictional brake
299	Also including clutch	210	
	mechanism having coaxial,		assembly mechanically linked
	rotatable, relatively		to, and operationally
	shiftable axially, power	210	influenced by, clutch
	transmitting components	319	Components having frictional
			contact surface

320	Including ratchet wheel and interengaging driving pawl in drive	344	<pre>Epicyclic gear arrangement including sun, intermediate (e.g., planet), and ring gears</pre>
321	Including means for preventing or retarding	345	Shiftable into and out of intermeshing engagement
	rotation of one or more drums in at least one direction	346	Drive also includes clutch mechanism having coaxial,
322	<pre>Frictional brake assembly having rotating, wheel structure and shiftable shoe</pre>		rotatable relatively shiftable axially, power transmitting components
	or band	347	With frictional brake
323	With vehicle for supporting drum	01/	assembly mechanically linked to, and operationally
324	Having arch-shaped body for		influenced by, clutch
	straddling load	348	With additional axially
325	Having rotatable, cable guiding, pulley wheel element spaced from drum		shiftable clutch mechanism mechanically linked to, and operationally influenced by,
326	Element repositionable	0.40	first clutch
327	relative to drumPlural elements	349	Fluid operated actuator shifts component
328	Drive for drum includes motor of vehicle	350	Components having frictional contact surface
329	With means affixing drum to	351	Truncated cone shaped
	supporting base and allowing	352	Drive also includes ratchet wheel and driving pawl
220	relative movement therebetween	353	
330	Movement engages or disengages		Plural driving pawls
331	drum from driveMovement occurs along line	354	<pre>Attached to rotatable disk   or shaft</pre>
331	collinear with rotational axis of drum during pulling of cable	355	Drive also includes clutch mechanism having rotatable, radially shiftable, power
332	Including pivotal, rotational,		transmitting component
	or swivel connection between	356	With means for preventing or
333	drum and baseHaving pressure element spaced		retarding rotation of drum in at least one direction
	from drum to confine cable	357	Ratchet wheel or formation
	thereagainst		and locking pawl
334	Having rotatable, cable	358	Drive includes sprocket wheel
	guiding, pulley wheel element		and chain
	spaced from drum	359	Either drive or cable return
335	Element repositionable relative to drum		<pre>means includes power transmitting pulley and rope</pre>
336	Plural elements		or belt
337	Cable supported	360	Drive includes expansible,
338	Plural elements		noncombustible, fluid motor
339	Having plural, distinct drive		(e.g., air, steam)
337	sources or discrete drive	361	Drive includes noncompressible fluid motor or pump
340	Including two or more motors	362	Drive includes electric motor
341	Drive includes rack and either	363	Drive includes contacting
	pinion or pinion segment		friction wheels having
342	Drive includes intermeshing		noncollinear axes of rotation
	gears	364	Either drive or cable return
343	Worm and worm wheel		means includes spring
			_

## 254 - 6 CLASS 254 IMPLEMENTS OR APPARATUS FOR APPLYING PUSHING OR PULLING FORCE

365	Drive includes clutch mechanism having coaxial, rotatable, relatively shiftable axially,	383	With cable guard structure extending partly around and closely adjacent to drum
	power transmitting components	384	.Including hand held and operated
366	With frictional brake assembly mechanically linked to, and operationally influenced by, clutch	304	lever with plural cable engaging means movably attached thereto for alternately contacting and
367	Fluid operated actuator shifts component	385	pulling on cable .With rotatable, cable
368	Components having frictional		contacting, pulley wheel
	contact surface		element attached to and
369	Drive includes ratchet wheel		reciprocated by driving
	and interengaging driving pawl	206	component of device
370	Drive includes clutch mechanism having rotatable, radially	386	Element reciprocated by expansible fluid motor
	shiftable, power transmitting	88	INCLINED PLANE LIFTER
	component	89 R	MULTIPLE LIFTERS (E.G., VEHICLE
371	With means on circumference of		LIFTS)
	drum, or relatively movable	90	.Track-straddling platform
	drum components, for grasping	91	.Swinging platform
	cable	92	.Screw
372	With projections or apertures	89 н	.Fluid pressure
	on drum for engagement with	93 R	FLUID PRESSURE
	complementary structural	93 VA	.Vehicle attached
	formations on cable	93 L	.Service station lifts
373	With pickup or pushing means on	93 A	.Combined with screw
	circumference of drum for	93 HP	.Inflatable portable bags
	cooperating with structure	93 н	.Portable automobile jacks
	attached to, or formed on, end	94	ROCKING SUPPORTS
0.7.4	of cable	95	RACK AND PINION
374	Having noncircular or varying	96	.Screw pinion
	diameter, cable contacting	97	.Geared
275	perimeter	98	SCREW
375	Including means for preventing	99	.Derrick type
	or retarding rotation of drum in at least one direction	100	.Special engaging feature
376	Ratchet wheel or formation and	101	Rocking head or base
370		102	.Telescoping screws
277	locking pawl	103	.Geared
377 378	Fluid resistance brake	104	WEDGE
370	Frictional brake assembly having rotating, wheel	105	STEP-BY-STEP TRAVELING BAR
	structure and shiftable shoe	106	.Clutch actuated
	or band	107	Multiple driving clutches
379	Having fluid actuator for	108	.Pawl actuated
313	shifting shoe or band	109	Multiple driving pawls
380	With portable housing for drum	110	Reversing
300	and hand manipulated means for	111	Reversing
	removably fastening housing to	112	.Rack and lever
	supporting base or load	113	SINGLE THROW LEVER AND BAR
381	With structure (e.g., sweep,	114	.Sliding bar
301	tree, yoke) adapting drum to	115	Rack bar and segment
	be powered by draft animal	116	Adjustable
382	Including static receiver	117	Lateral shoe
	spaced from drum for storing	118	Rack bar
	pulled cable	119	.Adjustable
	•	117	

100		400	
120 121	SINGLE THROW LEVER	400	Having axes perpendicular or
121	Rail or tie lifter	401	skewed
123	Lazy tongs	401	With portable block for elements and hand manipulated
123	Lever-supported thrust bar		means for removably fastening
124	.Mechanically actuated		block to support base or load
126	Screw Cable	402	Having portion of block
127	Block and tackle	102	repositionable for insertion
128			or removal of cable or for
130	.Adjustable		exposure of elements
131	Multiple fulcrums	403	With guard or guide for
131.5	.Special engaging featureFulcrumed fork or shovel		maintaining cable on elements
131.3	Root puller type	404	Including antifriction means
387	LOAD ENGAGING MEMBER AND POWER		for elements
307	TRANSMITTING CABLE FOR	405	With block for element and
	SHIFTING MEMBER RELATIVE TO		portion thereof repositionable
	STRUCTURE WHICH CONTACTS AND		for insertion or removal of
	GUIDES MEMBER		cable or for exposure of
133 R	SPECIAL ENGAGING ELEMENTS		element
134	.Adjustable	406	Portion revolves about axis of
133 A	.Sharing props (nonhydraulic)		rotation of element
388	MEANS SUPPORTED BY, AND	407	With means, or element
	MAINTAINING RELATIVE SPACING		structure, enabling object or
	BETWEEN, LONGITUDINAL RUNS OF		obstruction on cable to bypass
	AN ENDLESS LOAD MOVING CABLE	400	or travel over element
389	DEVICE OR MEMBER FOR CONTACTING	408	With block for element having
	AND GUIDING MOVING CABLE		stationary portion adapted to
390	.Including rotatable, cable		coact with element to grip cable
	contacting, pulley wheel	409	With portable block for element
	element	405	and hand manipulated means for
391	With mechanism for retarding or		removably fastening block to
	preventing cable movement or		support or load
200	element rotation	410	Fastening means remotely
392	. With fluid, shock absorbing or		operable or breakaway type
	tension restoring mechanism	411	With guard or guide for
202	connected thereto		maintaining cable on element
393	Plural elements or element with	412	Including antifriction means
	plural cable contacting regions		for element
394	At least two of the elements	413	With means for affixing element
J J <del>1</del>	having noncollinear axes of		to support base and allowing
	rotation		relative movement therebetween
395	Juxtaposed to cable at single	414	Including elastic member
	locus	415	Including pivotal, rotational,
396	Having juxtaposed elements		or swivel connection
	repositionable relative to one	416	With antifriction means for
	another		element
397	Including additional element	417	.Having cable contacting portion
	spaced along cable path		revolving around another
398	Having one element		component of device
	repositionable relative to		
	another element		
399	Repositionable element	ODCGG !	
	supported by cable (e.g.,	CRUSS-	REFERENCE ART COLLECTIONS
	traveling block)		

## 254 - 8 $\,$ CLASS 254 IMPLEMENTS OR APPARATUS FOR APPLYING PUSHING OR PULLING FORCE

900	CABLE PULLING DRUM HAVING WAVE
	MOTION RESPONSIVE ACTUATOR FOR
	OPERATING DRIVE OR ROTATION
	RETARDING MEANS
901	ANTIFRICTION MEANS FOR CABLE
	PULLING DRUM
902	EITHER DRUM, PULLEY WHEEL
	ELEMENT, OR CABLE CONSTRUCTED
	FROM SPECIFIC MATERIAL
903	YIELDABLE, CONSTANT ENGAGEMENT,
	FRICTION COUPLING (E.G., SLIP
	CLUTCH) IN DRIVE FOR CABLE
	PULLING DRUM

### FOREIGN ART COLLECTIONS

FOR 000 CLASS-RELATED FOREIGN DOCUMENTS

### DIGESTS

DIG	1	JACK BASES
DIG	Т	UACK BASES
DIG	2	ELECTRIC SCREW JACKS
DIG	3	JACK HANDLES
DIG	4	OBJECT ENGAGING HEADS FOR JACKS
DIG	5	MEANS FOR DEPRESSING FOOT BRAKE
		WHEN ADJUSTING SAME
DIG	6	FLEXIBLE RACK AND PINION
DIG	7	PRINTERS FORM TRUCKS
DIG	8	SCREW JACKS, PLURAL SECTION NUT
DIG	9	VEHICLE-OPERATED LIFT PLATFORM
DIG	10	TIRE OR RIM EXPANDING OR
		CONTRACTING DEVICES
DIG	11	CABLE DRUM FEED FOR PRESSER
DIG	12	PAWLS
DIG	13	VEHICLE RETARDING DRUMS
DIG	14	ROPE ATTACHMENT
DIG	15	MOTOR CLAMPS
DIG	16	AUTOMOBILE TRANSMISSION JACK