1.5	PACKING EXPANDER OR CONSTRICTOR SPRING PANEL	104	With supplementary spacing means intermediate ends of surface
81	.Composite springs of diverse material, e.g., metal and non-metal	105	Stiffener or bracer for loading surface
82	Vented fluid chamber modifies	106	Multiple sections span frame
02	action of metallic spring	107	By inwardly bowed portion,
0.3			i.e., "fishmouth" type
83	Superposed layers; metal and	108	With coiled apex, i.e.,
	non-metal	100	
84	Metal layer is compressible	100	"safety pin" type
	coil spring	109	By outwardly bowed portion
85	.Multistage springs	110	.Panel secured peripherally to
86	.Diverse types of superposed		supporting frame
	metallic springs	111	Panel secured to tension frame
87	Sinuous spring loading surface		inwardly
07		112	Secured by resilient
0.0	supported by other spring		connectors
88	Compressible coil spring	2	VEHICLE
	loading surface supported by	3	
	other spring		Railway
89	.With means to vary preliminary	4	Coil
	tension of spring	5	.Perambulator
90	.With means to dampen vibration	6	.Bolster
	of springs, e.g., sound	7	Leaf
	deadening	183	.Parallel depression (e.g.,
91	.Spring panel comprises		having stabilizer bar)
7 -	vertically oriented	184	Duplex
	compressible coil springs	185	Single pivot
0.0		186	
92	Plural superposed coils		Fluid stabilizer
93	Panel comprises spring of	187	Including torque bar or pump
	varying capacities	188	Torque bar or tube stabilizer
94	With padding protector on	189	And elastomeric member
	spring end	190	And coil spring
95	Loading surface includes	191	And retarder
	component other than coil	192	Leaf spring stabilizer
	spring	193	Leaf spring acting between
96	With resilient side or end,	133	pivoted links
5 0	e.g., edge roll	194	Plural nontorsion coil springs
97	With reinforcement or extension		
91		195	.Mechanical spring and
0.0	for border wire		nonresilient retarder (e.g.,
98	With diagonal surface-to-frame		shock absorber)
	brace	196	Friction (e.g., "snubber")
99	Resiliently mounted on frame by	197	Including flexible strap
	tensile springs		connector
100	Mounted on frame spanning	198	Strap forms friction element
	strips	199	Flat spiral spring
101	Spring rows supported by row	200	Having lubricating feature
	separating stringers	200	
102	.With cantilevered surface	ZUI	Elastomeric spring or friction
102		0.00	element
102	extension, i.e., "soft edge"	202	And helical coil spring
103	.Spring means spacing loading	203	Plural coil springs
	surface vertically from plane	204	Friction surface on helical
	of supporting frame		spring

005		0.2.0	
205	Including cam or wedge	238	Nested coils
	friction element or actuator	239	Having leaf-end-connecting
	therefor		lever
206	Helical cam surface	240	Coil spring between lever
207	Plural axially spaced		and vehicle part
	expandable friction rings	241	And fluid pressure spring
208	Including relatively rotating	242	Including adjustment for
	friction surfaces (e.g., drum		spring loading
	type)	243	And roller or bearing to
209	Including helical coil spring	210	accommodate deflection of
210	Transversely oriented coil		spring
210	for biasing friction surfaces	244	Vertically spaced leaf springs
211	Plural laterally spaced	244	
211		0.45	(e.g., elliptic)
010	coils (e.g., spring group)	245	Having serially pivoted levers
212	Nested coil springs		at end of spring
213	Inside friction shell	246	Transverse leaf spring
214	Friction surface formed on or	247	Center acting or resiliently
	biased by additional spring		biased lever
215	Relatively rotating friction	248	Coil spring
	surfaces (e.g., drum type)	249	Enclosed spring
216	Coil spring for biasing	250	Plural coaxial coils in
	vehicle parts and friction		enclosure
	surfaces	251	Plural nontorsion coil springs
217	Fluid retarder	252	Coaxial
218	With separate pump or	253	Differentially deflected by
	adjustment for spring loading	233	lever
219	Elastomeric spring	254	Quadrilateral suspension
220	Mounted at end of retarder	255	Including adjustment for
221	Helical coil spring	233	
222	Quadrilateral suspension	256	spring loading
223	And rocking actuator arm or		Fluid spring
223	<u> </u>	257	Elastomeric spring
	rotary fluid displacement	258	Annular or spherical
004	member	259	.Compound
224	Plural mechanical springs	23	Leaf, coil, and fluid pressure
	for biasing vehicle parts	24	Leaf, fluid pressure and liquid
225	Plural mechanical springs for	25	Leaf and torsion
	biasing vehicle parts	26	Torsion coil
226	Spring within coaxial fluid	27	Leaf-end-connecting
	chamber	28	Leaf and coil
227	Leaf spring	29	Leaf-end-connecting
228	.Lever and nontorsion spring	30	Leaf and rubber type
229	Leaf spring	31	Leaf and fluid pressure
230	Quadrilateral suspension	32	
231	And coil spring		Leaf-end-connecting
232	And roller	33	Coil and rubber type
233	And "overload" bumper	34	. Coil and fluid pressure
234		35	Rubber type and fluid pressure
4 34	Including adjustment for	36.1	.Leaf
225	spring loading	37.1	And covering
235	Adjusting screw coaxial with	37.2	Spiral or elastic covering
006	coil spring	37.3	Three serially arranged
236	Plural coils between		metallic segments
	vertically spaced leaf springs	37.4	Having lubricant reservoir or
237	Plural coaxial coils		pad
			-

38	Twin, axle interposed	285	Plural torsion spring
39	Side bar	286	.Coil
40	Longitudinal	287	Having stiffener
41	Cantilever	288	Conical
42	Elliptic	289	Plural coils
43	Elliptic and leaf	290	Nested
44	Semielliptic	291	Having guide rods extending
45	Semielliptic and leaf		through coils
46	End-to-end connected	292	.Elastomeric
47	Structure	293	Including central guide rod or
48	Auxiliary tensioning elements		tube through spring
49	Antifriction	294	Having rigid spacer plate
50	Lubrication		between plural elastomeric
51	Broken-spring supports		segments
52	Intermediate supports	64.11	.Comprising compressible fluid
53	Clips	64.12	Having lockable strut
260	Having specific end connection	64.13	Including compressible liquid
261	For elliptic spring	64.14	Including chamber at sub-
262	Sliding	01.11	atmospheric pressure
263	Including spring for biasing	64.15	With retarder
203		64.16	Leveling device
264	pivotal connection	64.17	Self-pumping
264	Including threaded or grooved	64.18	Having metering pin for
265	bearing surface	04.10	varying spring rate
265	Including spring position	64.19	Having flexible wall
	adjustment or geared	64.21	Including rolling lobe
266	connection	04.21	
266	Universal joint	64.22	between telescoping members
267	Having rolling antifriction	04.22	Having metering pin for
0.60	elements (e.g., ball bearing)	64 22	varying spring rate
268	Having lubrication feature	64.23	Having flexible wall
269	Including elastomeric material	64.24	Including rolling lobe
270	Including tapered bushing or	64.05	between telescoping members
	inner and outer sleeve for	64.25	Having plural compressible
0.54	cylindrical bushing	64.26	fluid springs
271	Including shackle pivoted to	64.26	Having telescoping cylinders
0.00	spring and to vehicle	64.27	Having flexible wall
272	.Flat spiral	64.28	Including means for charging or
273	.Torsion		discharging spring
274	Quadrilateral suspension	66	.Braces
275	Helical torsion coil	67	Yielding
276	And separate elastomeric member	68	Sliding
	(e.g., bushing)	69	ELASTIC EXTENSION DEVICES
277	And adjustment for varying	70	.Compression spring
	spring loading	71	Single
278	Screw threaded adjustment	72	Drawbars inclosed
279	Elastomeric torsion spring	73	.Tension spring
280	Plural axially spaced	74	Single
	elastomeric elements	75	RECIPROCATING-BED-CUSHIONING
281	And attached inner and outer		DEVICES
	metallic sleeves	113	FLUID
282	Plural concentric elastomeric	114	.Time delay
	rings	115	.Draft gear
283	Multilayer leaf	116	.Bumper
284	And housing enclosing spring	117	.Cushion for person

118	.Expansible-contractible chamber	141.4	Annular flange or collar
	device		embedded in resilient element
119	Press cushion	141.5	Flanged or collared
120	Vehicle; for non-support or		innermost member
	accessory support cushioning	141.6	Collapsible wall
121	Compound	141.7	Arcuate or tapered contact
122	Diaphragm or bellows		surface
123	For valve or throttle control	142	CUSHION FOR HUMAN COMFORT
124	Piston	143	.Compound
125	For use in well drilling or	144	.Zigzag
125	operating	145	.Rubber
126		145	
126	System	-	.Fibrous pad
	Trans-piston passage	147	COMPRESSED WIRE MESH
128	Rigid-material-spring impelled	148	FIBROUS
129	Seal	149	.Glass fiber
130	PRESS CUSHION	150	CENTERING DEVICE
131	SEAT SUPPORT	151	COMPOUND
132	.Velocipede or motorcycle	152	.Rubber
133	.Flexural	153	RUBBER
134	FRICTION SNUBBER	154	TORSION
135	.Snubbed coil spring or ring pack	155	.Coil
136	RESILIENT SHOCK OR VIBRATION	156	Volute
	ABSORBER	157	Also compressible or expansible
137	.Tool movement dampening	158	BENDABLE ALONG FLAT SURFACE
138	.Draft gear		(E.G., LEAF SPRING)
139	.Bumper	159	.Snap spring
140	Rubber	160	.Flexural support
140.11	.Including energy absorbing means	161	Ring or annular spider
140.11	or feature (e.g., supplemental	162	Pair or pack
	vehicle equipment, such as	163	
	motor mount, seat, etc.,		.Including tang or spider
	including additional fluid or	164	.Bow spring or superposed spring
	friction energy absorber)	4.65	elements
140.12	Having concentric coaxial	165	Zigzag or plural
140.12	spring between plural	166	COIL
		166.1	.Conical
	confining means for radial force	167	.Circular
140 12		168	.Plural, one within another
140.13	Axial	169	.Including internal brace
140.14		170	.Including end thrust member
440.45	control	171	Equilibrium or over-center
140.15	With electronic or magnetic	172	Including cam
	control	173	Including lever
140.2	.Variably preloaded	174	For dynamic or work environment
140.3	.Having diverse resilient element	175	Adjustable
140.4	Metallic and nonmetallic	176	Reset
140.5	.Diverse resistance to vibration	177	Adjustable
	along different axes	178	Support type
141	.Nonmetallic, resilient element	179	Particular end connection
141.1	Plural resilient elements with		
	rigid spacer	180	.Irregular
141.2	Confined between coaxial,	181	FORAMINATED
	vibrating annular members	182	MISCELLANEOUS
141.3	Including radial contact		
-	surface, e.g., tapered or		
	shouldered member		

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