

YEAR	LAST	FIRST	TITLE	PATENT NUMBER	CITY	COUNTY
1960	Olinger	Donald	article supporting device	2930494	Burlington	Des Moines
1960	Gantz	Emmett	removable runners for vehicles	2950924	Burlington	Des Moines
1960	Winegard	John	TV antenna for color reception	2955289	Burlington	Des Moines
1960	Berky	Richard	thredded drive yoke	2957715	Burlington	Des Moines
1960	Schmidgall	Hartzell	apparatus for handling concrete pipe and the like	2958435	Mediapolis	Des Moines
1961	Wells	Donald	antenna director	2975423	Burlington	Des Moines
1961	Stoddard	Richard	snow removal attachment for a rotary lawn	2984919	Burlington	Des Moines
1961	Winegard	John	TV antenna driven element	2992430	Burlington	Des Moines
1961	Winegard	John	antenna structure	3001195	Burlington	Des Moines
1961	Winegard	John	universal TV and FM antenna	3007167	Burlington	Des Moines
1961	Allin	George	actuating means for telemechanic fluid power steering system	3014548	Burlington	Des Moines
1962	Wiele	Henry	high chair attachment	193093	West Burlington	Des Moines
1962	Harris	Gerald	device for placing plastic clips on bags	3021654	West Burlington	Des Moines
1962	Bonewitz	Paul	method of producing a chelating caustic composition	3046232	Burlington	Des Moines
1962	Long	Elton	swing mechanism for backhoe	3047171	Burlington	Des Moines
1963	Pedersen	Carl	implement connecting means	3078106	Burlington	Des Moines
1963	Adrig	Vernon	ice detector	3091680	West Burlington	Des Moines
1963	Gantz	Emmett	magnetic tool holder	3100275	Burlington	Des Moines
1964	Griffel	Marc	elastic fluid turbine	3163395	Burlington	Des Moines
1964	Braun	Michael	refractive optics infrared scanning system	3163760	Burlington	Des Moines
1964	Murry	Robert	miniature potentiometer	3119089	Burlington	Des Moines
1964	Gantz	Emmett	bird cage feeder device	3119372	Burlington	Des Moines
1964	Baker	Donald	access hole cover securing means	3125239	Burlington	Des Moines
1965	Budd	William	track chain	3169039	Burlington	Des Moines
1965	Baker	Donald	track chain	3169039	Burlington	Des Moines
1965	Murry	Robert	hermatically sealed resistor	3173121	Burlington	Des Moines
1965	Murry	Robert	hermatically sealed resistor	3173121	Burlington	Des Moines
1965	Murry	Robert	hermetically sealed resistor	3173122	Burlington	Des Moines
1965	Braun	Michael	infrared mapping system	3191035	Burlington	Des Moines
1965	Appleton	Orbra	foot pedal string bass	3197542	Burlington	Des Moines
1965	Klein	James	screw feed adjustment	3211131	Burlington	Des Moines
1965	Rutherford	Kenneth	bag filling and weighing machine	3215173	Burlington	Des Moines
1965	Miller	Arthur	retractable attachment for chair arms	3215467	Burlington	Des Moines
1965	Long	Elton	power actuated loader	3216597	Burlington	Des Moines
1965	Lewandowski	Thaddeus	cleaner	3218260	Burlington	Des Moines

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1965	Long	Elton	material handling apparatus	3220580	Burlington	Des Moines
1965	Maurer	Herman	material handling equipment	3220581	Burlington	Des Moines
1965	Pedersen	Carl	material handling equipment	3220581	Burlington	Des Moines
1966	Pedersen	Carl	control valve	3228306	Burlington	Des Moines
1966	Wells	Donald	zig-zag UHF antenna with four square diamond-shaped portions and quarter wave stubs	3235868	Burlington	Des Moines
1966	Meier	Carl	selective bird feeder	3241525	Burlington	Des Moines
1966	Pedersen	Carl	loader and tractor mechanism	3241694	Burlington	Des Moines
1966	Ellerbroek	Jon	boom extension	3249244	Burlington	Des Moines
1966	Long	Elton	boom extension	3249244	Burlington	Des Moines
1966	Hermann	Tobias	door lock	3255618	Burlington	Des Moines
1966	Pedersen	Carl	hydraulic cylinder with fast-acting means	3260167	Burlington	Des Moines
1966	Molzhon	Fred	furnace humidifier	3263673	Burlington	Des Moines
1966	Keser	Paul	weighing machine	3266586	West Burlington	Des Moines
1966	Reeser	Esral	combined fluid wiper and seal	3266810	Burlington	Des Moines
1966	Baker	Donald	neutral locking and safety starting means for vehicles	3285361	Burlington	Des Moines
1966	McGlashan	Kenneth	deflection yoke assembly with terminal housing	3287605	Burlington	Des Moines
1966	Dandro	David	inching and braking control for motor vehicles	3288256	Burlington	Des Moines
1966	Neuhoff	Alfred	elongated rigid structural member	3293822	Burlington	Des Moines
1966	Frisbee	Claude	elongated rigid structural member	3293822	Burlington	Des Moines
1967	Long	Elton	extensible back hoe assembly	3298548	Burlington	Des Moines
1967	Coleman	Theodore	extensible back hoe assembly	3298548	Burlington	Des Moines
1967	Coleman	Theodore	quick disconnect mechanism	3298724	Burlington	Des Moines
1967	Maxwell	John	quick disconnect mechanism	3298724	Burlington	Des Moines
1967	Ervine	Johnie	antenna with elements pivotally connected to boom	3300784	Burlington	Des Moines
1967	Long	Elton	hydraulic apparatus for locking a side shiftable excavator	3304100	Burlington	Des Moines
1967	Appleton	Orbra	slanted finger board for stringed instruments	3319504	Burlington	Des Moines
1967	Frisbee	Claude	method of making a structural member	3320656	Burlington	Des Moines
1967	Winegard	John	television antenna	3321764	Burlington	Des Moines
1967	Shellady	Carey	television antenna	3321764	Burlington	Des Moines
1967	Mason	John	crawler tractor idler and roller mounting	3323841	Burlington	Des Moines
1967	Winegard	John	collapsible parabolic antenna	3329960	Burlington	Des Moines
1967	Fitzgibbon	James	polyurethane concrete slab sealer	3334557	Burlington	Des Moines
1967	Horsch	Rudolf	quick-disconnect battery cable	3345601	Burlington	Des Moines
1967	Michael	Ronald	quick-disconnect battery cable	3345601	Burlington	Des Moines

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1967	Winegard	John	coupler for connecting a plurality of load pair to a signal source	3349345	Burlington	Des Moines
1967	Hemie	Dale	balun suitable for use throughout the ultra high frequency television bands	3357023	Burlington	Des Moines
1968	Vermeersch	Raymond	component interlocking and locking apparatus for cabinets	3371974	Burlington	Des Moines
1968	Winegard	John	antenna coupler system providing isolation between antenna	3373361	Burlington	Des Moines
1968	Long	Elton	backhoe	3376984	Burlington	Des Moines
1968	Long	Elton	hydraulic cylinder mounting	3386519	Burlington	Des Moines
1968	Long	Elton	overcenter backhoe	3389816	Burlington	Des Moines
1968	Long	Elton	hydraulic cylinder mounting assembly	3391747	Burlington	Des Moines
1968	Winegard	John	combined VHF-UHF television antenna with serpentine director	3392399	Burlington	Des Moines
1968	Burham	Francis	apparatus for vapor coating tumbling substrates	3395674	Burlington	Des Moines
1968	Hamilton	Robert	apparatus for vapor coating tumbling substrates	3395674	West Burlington	Des Moines
1968	Winegard	John	ultra-high frequency fishbone type television antenna	3396399	Burlington	Des Moines
1968	Schmidgall	Hartzell	form for making concrete pipe with wall openings	3415482	Mediapolis	Des Moines
1968	Long	Elton	hydraulic apparatus for locking a side shiftable excavator	26439	Burlington	Des Moines
1969	Waclawek	Miczyslaw	transmission	3486398	Burlington	Des Moines
1969	Long	Elton	locking apparatus for side shiftable excavator	3436099	Burlington	Des Moines
1969	Boston	Charles	seat assembly	3437373	West Burlington	Des Moines
1969	Schmidgall	Hartzell	combination stirrup and spacer for re-enforced concrete pipe and like structure	3440792	Mediapolis	Des Moines
1969	McGuire	Robert	tractor control structure	3448821	Burlington	Des Moines
1969	Pedersen	Carl	high pressure hydraulic swivel coupling	3450422	Burlington	Des Moines
1969	Brown	Marvin	high-pressure hydraulic swivel coupling	3450422	Burlington	Des Moines
1969	Winegard	John	electrical line splitter device	3454905	Burlington	Des Moines
1969	Waclawek	Miczyslaw	hydrodynamic torque converter	3461670	Burlington	Des Moines
1969	Winegard	John	television antenna with built-in cartridge preamplifier	3475759	Burlington	Des Moines
1969	Engle	Bruce	thermohumidistat	3484947	West Burlington	Des Moines
1970	Winegard	John	ultra-high frequency fishbone type television antenna	26787	Burlington	Des Moines
1970	Appleton	Orbra	guitar or similar article	219618	Burlington	Des Moines
1970	McColum	Gary	directional line drop tap unit	3537036	Burlington	Des Moines
1970	Winegard	John	directional line drop tap unit	3537036	Burlington	Des Moines
1970	Seaberg	David	anti-rollback mechanism	3539068	Burlington	Des Moines
1970	Horsch	Rudolf	hydrostatic control device for loader tractor	3542228	Burlington	Des Moines
1970	Gantz	Emmett	target shield	3542365	Burlington	Des Moines
1970	McGuire	Robert	control valve linkage	3548674	Burlington	Des Moines
1970	Coutts	Harold	ski construction	3549162	Burlington	Des Moines

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1970	Salzwedel	Kenneth	apparatus for coating electrical components by rotating the same in a molten film	3487812	Burlington	Des Moines
1970	Long	Elton	self-leveling hydraulic loader	3487968	Burlington	Des Moines
1970	Winegard	John	coax connector unit	3488759	Burlington	Des Moines
1970	Banks	William	loader and aligner for buttons	3499405	West Burlington	Des Moines
1970	Emerick	Lloyd	insulator heater coating for heater cathode assembly	3500454	West Burlington	Des Moines
1970	Lockwood	Lynn	fold over antenna boom	3514782	Burlington	Des Moines
1970	Appleton	Jamie	nut assembly for stringed musical instruments	3515025	Burlington	Des Moines
1970	Seaberg	David	hydraulic cylinder control for bulldozer	3515224	Burlington	Des Moines
1970	Anderson	Ronald	logging fork with saw attachment	3517711	Burlington	Des Moines
1970	Reeser	Esral	logging fork with saw attachment	3517711	Burlington	Des Moines
1970	Appleton	Jamie	tone control for stringed musical instruments	3518353	Burlington	Des Moines
1970	Shelledy	Carey	ultra high frequency television antenna	3518693	Burlington	Des Moines
1970	Winegard	John	ultra high frequency television antenna	3518693	Burlington	Des Moines
1970	Engle	Bruce	thermo humidistat	3519203	West Burlington	Des Moines
1970	Coutts	Harold	nail set and driver	3521398	Burlington	Des Moines
1970	Waclawek	Miszyslaw	transmission	3526155	Burlington	Des Moines
1970	Anderson	Viletta	game of show ring competition	3531121	Burlington	Des Moines
1970	Anderson	Kathryn	game of show ring competition	3531121	Burlington	Des Moines
1970	Anderson	Marion	game of show ring competition	3531121	Burlington	Des Moines
1970	Shelledy	Carey	high gain all channel television antenna	3531805	Burlington	Des Moines
1970	Winegard	John	high gain all channel television antenna	3531805	Burlington	Des Moines
1970	Baldwin	Oscar	isothermal expansion closed circuit power unit, using refrigerant superheated gas as the prime mover	3531933	Burlington	Des Moines
1970	Horsch	Rudolf	linkage for positioning loader bucket	3534881	Burlington	Des Moines
1971	Winegard	John	television antenna	222145	Burlington	Des Moines
1971	Lockwood	Lynn	support boom to attach planar array antenna to mast	3560987	Burlington	Des Moines
1971	Horsch	Rodolf	loader linkage	3578191	Burlington	Des Moines
1971	Ratcliff	Michael	control device for earth working tool	3581827	Burlington	Des Moines
1971	Frisbee	Claude	hydraulic control for earth moving implement	3581829	Burlington	Des Moines
1971	Pedersen	Carl	hydraulic control for earth moving implement	3581829	Burlington	Des Moines
1971	Michael	Ronald	transmission control valve	3586054	West Burlington	Des Moines
1971	Pedersen	Carl	hydraulic control system for earth moving implement	3606929	Burlington	Des Moines
1971	Frisbee	Claude	hydraulic control system for earth moving implement	3606929	Burlington	Des Moines
1971	Barton	Robert	cushioning device for hydraulic motor	3608437	Burlington	Des Moines

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1971	Little	William	cushioning device for hydraulic motor	3608437	West Burlington	Des Moines
1971	Little	William	fluid cylinder and piston assembly	3611881	West Burlington	Des Moines
1971	Ringland	Robert	uhf-vhf antenna preamplifier	3614628	Burlington	Des Moines
1971	Ringland	Robert	plural antennas with impedance matching to couple to single leadin	3618103	Burlington	Des Moines
1971	Grisham	James	stabilizer for earth moving machinery	3630544	West Burlington	Des Moines
1971	Horsch	Rudolf	stabilizer for earth moving machinery	3630544	Burlington	Des Moines