SECTION XVIII

OPTICAL, PHOTOGRAPHIC, CINEMATOGRAPHIC, MEASURING, CHECKING, PRECISION, MEDICAL OR SURGICAL INSTRUMENTS AND APPARATUS; CLOCKS AND WATCHES; MUSICAL INSTRUMENTS; PARTS AND ACCESSORIES THEREOF

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CHAPTER 90

OPTICAL, PHOTOGRAPHIC, CINEMATOGRAPHIC, MEASURING, CHECKING, PRECISION, MEDICAL OR SURGICAL INSTRUMENTS AND APPARATUS; PARTS AND ACCESSORIES THEREOF

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Notes

- This chapter does not cover:
 - (a) Articles of a kind used in machines, appliances or for other technical uses, of vulcanized rubber other than hard rubber (heading 4016), of leather or of composition leather (heading 4204) or of textile material (heading 5911);
 - (b) Refractory goods of heading 6903; ceramic wares for laboratory, chemical or other technical uses, of heading 6909;
 - (c) Glass mirrors, not optically worked, of heading 7009, or mirrors of base metal or of precious metal, not being optical elements (heading 8306 or chapter 71);
 - (d) Goods of heading 7007, 7008, 7011, 7014, 7015 or 7017;
 - (e) Parts of general use, as defined in note 2 to section XV, of base metal (section XV) or similar goods of plastics (chapter 39);
 - (f) Pumps incorporating measuring devices, of heading 8413; weight-operated counting or checking machinery, or separately entered weights for balances (heading 8423); lifting or handling machinery (headings 8425 to 8428); paper or paperboard cutting machines of all kinds (heading 8441); fittings for adjusting work or tools on machine tools, of heading 8466, including fittings with optical devices for reading the scale (for example, "optical" dividing heads) but not those which are in themselves essentially optical instruments (for example, alignment telescopes); calculating machines (heading 8470); valves or other appliances of heading 8481;
 - (g) Searchlights or spotlights of a kind used for cycles or motor vehicles (heading 8512); portable electric lamps of heading 8513; cinematographic sound recording, reproducing or re-recording apparatus (heading 8519 or 8520); sound-heads (heading 8522); radar apparatus, radio navigational aid apparatus and radio remote control apparatus (heading 8526); sealed beam lamp units of heading 8539; optical fiber cables of heading 8544;
 - (h) Searchlights or spotlights of heading 9405;
 - (ij) Articles of chapter 95;
 - (k) Capacity measures, which are to be classified according to their constituent material; or
 - (1) Spools, reels or similar supports (which are to be classified according to their constituent material, for example, in heading 3923 or section XV).
- 2. Subject to note 1 above, parts and accessories for machines, apparatus, instruments or articles of this chapter are to be classified according to the following rules:
 - (a) Parts and accessories which are goods included in any of the headings of this chapter or of chapter 84, 85 or 91 (other than heading 8485, 8548 or 9033) are in all cases to be classified in their respective headings;
 - (b) Other parts and accessories, if suitable for use solely or principally with a particular kind of machine, instrument or apparatus, or with a number of machines, instruments or apparatus of the same heading (including a machine, instrument or apparatus of heading 9010, 9013 or 9031) are to be classified with the machines, instruments or apparatus of that kind;
 - (c) All other parts and accessories are to be classified in heading 9033.
- 3. The provisions of note 4 to section XVI apply also to this chapter.
- 4. Heading 9005 does not apply to telescopic sights for fitting to arms, periscopic telescopes for fitting to submarines or tanks, or to telescopes for machines, appliances, instruments or apparatus of this chapter or section XVI; such telescopic sights and telescopes are to be classified in heading 9013.
- 5. Measuring or checking optical instruments, appliances or machines which, but for this note, could be classified both in heading 9013 and in heading 9031 are to be classified in heading 9031.
- 6. Heading 9032 applies only to:
 - (a) Instruments and apparatus for automatically controlling the flow, level, pressure or other variables of liquids or gases, or for automatically controlling temperature, whether or not their operation depends on an electrical phenomenon which varies according to the factor to be automatically controlled; and
 - (b) Automatic regulators of electrical quantities, and instruments or apparatus for automatically controlling non-electrical quantities the operation of which depends on an electrical phenomenon varying according to the factor to be controlled.

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Additional U.S. Notes

- For the purposes of headings 9001 and 9002, the term "optically worked" refers to glass the surface of which has been ground or polished in order to produce the required optical properties.
- For the purposes of this chapter, the term "electrical" when used in reference to instruments, appliances, apparatus and
 machines, refers to those articles the operation of which depends on an electrical phenomenon which varies according to the
 factor to be ascertained.
- 3. For the purposes of this chapter, the terms "optical appliances" and "optical instruments" refer only to those appliances and instruments which incorporate one or more optical elements, but do not include any appliances or instruments in which the incorporated optical element or elements are solely for viewing a scale or for some other subsidiary purpose.

Statistical Notes

 For statistical reporting purposes under subheading 9001.10, the unit of quantity "<u>fiber m</u>", as it pertains to optical fiber bundles and cables, is determined by multiplying the number of individual fibers contained therein by the length in meters.

9001	Optical fibers and optical fiber bundles; optical fiber cables other than those of heading 8544; sheets and plates of polarizing material; lenses (including contact lenses), prisms, mirrors and other optical elements, of any material, unmounted, other than such elements of glass not optically worked:				
9001.10.00	Optical fibers, optical fiber bundles and cables		8.4%	Free (A,E,IL)	65%
30 2	Optical fibers: For transmission of voice, data or video communications	m		3.00 (0.1)	
50 7 70 3	Other: Plastic optical fibers Other Optical fiber bundles and cables:				
75 8	Plastic optical fiber bundles and cables	Fiber m			
85 6 9001.20.00 00 6	OtherSheets and plates of polarizing material		10%	Free (A,E,IL) 7% (CA)	50%
9001.30.00 00 4	Contact lenses	Prs	5.6%	Free (A,E,IL) 3.9% (CA)	40%
9001.40.00 00 2	Spectacle lenses of glass	Prs	5.6%	Free (A,E,IL) 3.9% (CA)	40%
9001.50.00 00 9	Spectacle lenses of other materials	Prs	5.6%	Free (A,E,IL) 3.9% (CA)	40%
9001.90	Other:			3.50 (C/1)	
9001.90.40 00 3	Lenses	No	5.6%	Free (A,C,E,IL) 3.9% (CA)	45%
9001.90.50 00 0	Prisms	X	8%	Free (A,C,E,IL) 5.6% (CA)	65%
9001.90.60 00 8	Mirrors	X	8%	Free (A,C,E,IL) 5.6% (CA)	45%
9001.90.80 00 4	Other: Halftone screens designed for use in engraving or photographic				
	processes	X	3.1%	Free (A,E,IL) 2.1% (CA)	25%
9001.90.90 00 2	Other	X	8.4%	Free (A,C,E,IL) 5.8% (CA)	85%

9002		Lenses, prisms, mirrors and other optical elements, of any material, mounted, being parts of or fittings for instruments or apparatus, other than such elements of glass not optically worked; parts and accessories thereof: Objective lenses and parts and accessories thereof:				
9002.11		For cameras, projectors or photographic enlargers or reducers:				
9002.11.40 00 9002.11.80 00		ProjectionOther		7% 6.6%	Free (A,CA,E,IL) Free (A,E,IL) 4.6% (CA)	45% 45%
9002.19.00 00	8	Other	X	6.6%	Free (A,E,IL) 4.6% (CA)	45%
9002.20		Filters and parts and accessories thereof:				
9002.20.40 00	7	Photographic	X	5.8%	Free (A,E,IL) 4% (CA)	20%
9002.20.80 00	8	Other	х	8.4%	Free (A,E,IL) 5.8% (CA)	65%
9002.90 9002.90.20 00	6	Other: Prisms	x	8%	Free (A,C,E,IL)	65%
9002.90.40 00	2	Mirrors	х	8%	5.6% (CA) Free (A,C,E,IL) 5.6% (CA)	45%
9002.90.70 00	5	Other: Halftone screens designed for use in engraving or photographic				
		processes		3.1%	Free (A,E,IL) 2.1% (CA)	25%
9002.90.90 00	1	Other	X	8.4%	Free (A,C,E,IL) 5.8% (CA)	65%
9003		Frames and mountings for spectacles, goggles or the like, and parts thereof: Frames and mountings:				
9003.11.00 00	5	Of plastics	Doz	7.2%	Free (A,E,IL) 5% (CA)	50%
9003.19.00 00	7	Of other materials	Doz	7.2%	Free (A,E,IL) 5% (CA)	50%
9003.90.00 00	9	Parts	х	7.2%	Free (A,E,IL) 5% (CA)	50%
9004		Spectacles, goggles and the like, corrective, protective or other:				
9004.10.00 00	5	Sunglasses	Doz	7.2%	Free (A,E,IL) 5% (CA)	40%
9004.90.00 00	8	Other	Doz	7.2%	Free (A,E,IL) 5% (CA)	40%

9005	and ins inc	noculars, monoculars, other optical telescopes, a mountings therefor; other astronomical struments and mountings therefor, but not cluding instruments for radio-astronomy; tts and accessories thereof:				
9005.10.00	20 0	Binoculars Prism binoculars for use with infrared light		Free		60%
9005.80	40 6 80 7	Other prism binocularsOtherOther instruments:				
9005.80.40		Optical telescopes		8%	Free (A,E,IL) 5.6% (CA)	45%
9005.80.60	20 7 40 3 00 6	For use with infrared light Other Other.	No.	9%	Free (A,E,IL)	45%
					6.3% (CA)	
9005.90.00		Parts and accessories (including mountings)	X	The rate ap- plicable	Free (A,E,IL) The rate appli-	The rate
	applicab	ole .		to the article of which it	cable to the article of which it is	to the article of
	which it			is a part	a part or	
	is a par	rt		or acces-	accessory (CA)	
	or acces	3-		sory	4	
	sory			2021		
9006	pho oth	otographic (other than cinematographic) cameras; otographic flashlight apparatus and flashbulbs her than discharge lamps of heading 8539; parts accessories thereof:				
9006.10.00	00 3	Cameras of a kind used for preparing printing plates or cylinders	No	3%	Free (A,E,IL) 2.1% (CA)	20%
9006.20.00	00 1	Cameras of a kind used for recording documents on microfilm, microfiche or other microforms	No	3%	Free (A,E,IL)	20%
9006.30.00	00 9	Cameras specially designed for underwater use, for aerial survey, or for medical or surgical examination of internal organs; comparison cameras for forensic or		3.0	2.1% (CA)	200
		criminological purposes	No	3.8%	Free (A,E,IL) 2.6% (CA)	20%
9006.40 9006.40.40	00 9	Instant print cameras: Fixed focus	No	4%	Free (A,E,IL) 2.8% (CA)	20%
9006.40.60	00 4	Other than fixed focus: Valued not over \$10 each	No	6.8%	Free (A,E,IL)	20%
9006.40.90	00 8	Valued over \$10 each	No	3%	4.7% (CA) Free (A,E,IL) 2.1% (CA)	20%

9006 (con.)		Photographic (other than cinematographic) cameras; photographic flashlight apparatus and flashbulbs other than discharge lamps of heading 8539; parts and accessories thereof (con.): Other cameras:					
9006.51.00		With through-the-lens viewfinder (single lens reflex (SLR)), for roll film of a width not exceeding 35 mm		3%	Free	(A,E,IL)	20%
9006.52	40 5 80 6	For roll film of a width of 35 mm Other Other, for roll film of a width less than 35 mm: Fixed focus: Hand held:					
9006.52.10		110 cameras		4%	Free 2.8%	(A,E,IL) (CA)	20%
	20 6	With built-in electronic stroboscopic flash	No.				
0006 52 30	40 2	Other Other		4%	Exco	(A E TI)	20%
9006.52.30					2.8%		
9006.52.50	00 1	Other Other than fixed focus:	No	4%	Free 2.8%	(A,E,IL) (CA)	20%
9006.52.60	00 9	Valued not over \$10 each	No	6.8%	Free 4.7%	(A,E,IL) (CA)	20%
9006.52.90		Valued over \$10 each		3%	Free 2.1%	(A,E,IL) (CA)	20%
		Hand-held type: 110 cameras:					
	20 9	With built-in electronic stroboscopic flash	No.				
	40 5 60 0	Other	No.				
9006.53.00	80 6	OtherOther, for roll film of a width of					
		35 mm		3% <u>1</u> /	Free 2.1%	(A,E,IL) (CA)	20%
	40 3	With built-in electronic stroboscopic flash	No.				
	80 4	Other	No.				
9006.59 9006.59.40		Other: Fixed focus		4%		(A,E,IL)	20%
	40 9	Disc cameras			2.8%	(CA)	
	60 4	Other Other than fixed focus:	No.				
9006.59.60	00 2	Valued not over \$10 each	No	6.8%	Free 4.7%	(A,E,IL)	20%
9006.59.90	00 6	Valued over \$10 each	No	3%		(A,E,IL)	20%

 $[\]underline{1}/$ Duty on certain cameras temporarily suspended. See heading 9902.90.06.

9006 (con.)		Photographic (other than cinematographic) cameras; photographic flashlight apparatus and flashbulbs other than discharge lamps of heading 8539; parts and accessories thereof (con.):					
		Photographic flashlight apparatus and flash- bulbs:					
9006.61.00		Discharge lamp ("electronic") flashlight apparatus		3.9%		(A,E,IL)	35%
	20 7	Capable of camera mounting: Capable of automatically controlling flash duration	No.		2.7%	(CA)	
	40 3	Other					
9006.62.00	60 8 00 0	Other Flashbulbs, flashcubes and the like		3.1%	Free	(A,E,IL)	35%
9006.69.00		Other		3.9%	2.1%		35%
9000.09.00	00 3		Λ	3.9%	2.7%		22.0
0006 01 00	00 5	Parts and accessories:	**	F 0.9		(3 D+ TT)	0.00
9006.91.00		For cameras		5.8%	4% ((20%
9006.99.00	00 7	Other	X	3.9%	Free 2.7%	(A,E,IL) (CA)	35%
9007		Cinematographic cameras and projectors, whether or not incorporating sound recording or reproducing apparatus; parts and accessories thereof: Cameras:					
9007.11.00		For film of less than 16 mm width or					
		for double-8 mm film		4.5%	Free 2.6%	(A,E,IL) (CA)	20%
	40 3 80 4	SilentSound.				(/	
9007.19.00		Other		4.5%	Free 2.6%	(A,E,IL)	20%
	40 5 80 6	16 mm			2.0%	(CA)	
		Projectors:					
9007.21 9007.21.40	00 1	For film of less than 16 mm: With sound recording and reproducing systems; and those					
		capable of projecting only sound motion pictures	No	2.2%		(A,E,IL)	45%
9007.21.80	00 2	Other	No	7%	1.5% Free 4.9%	(A,E,IL)	45%
9007.29		Other:				,	
9007.29.40		With sound recording and reproducing systems; and those					
		capable of projecting only sound					
		motion pictures		2.2%	Free	(A,CA,E,IL)	45%
	40 5 80 6	16 mm					
9007.29.80		Other		7%	Free	(A,CA,E,IL)	45%
	J	Parts and accessories:		· ·		(, 0.1, 2, 11)	100
9007.91		For cameras:			_	(2 = ==)	
9007.91.40	00 6	Parts	х	4.9%	Free	(A,E,IL) (CA)	20%
9007.91.80	00 7	Other	X	5.7%	Free	(A,E,IL) (CA)	45%
9007.92.00	00 3	For projectors	X	7%		(A,CA,E,IL)	45%

9008	photogr	rojectors, other than cinematographic; aphic (other than cinematographic) rs and reducers; parts and accessories :				
9008.10.00 0	00 1 Sl:	ide projectors	No	7%	Free (A,E,IL) 4.9% (CA)	45%
9008.20	rea	crofilm, microfiche or other microform aders, whether or not capable of producing pies:			,	
9008.20.40 0		Capable of producing copies	No	3.7%	Free (A,E,IL) 2.5% (CA)	35%
9008.20.80 0	00 2	Other	No	7%	Free (A,E,IL) 4.9% (CA)	45%
9008.30.00 0	00 7 Otl	her image projectors	No	7%	Free (A,E,IL) 4.9% (CA)	45%
9008.40.00 0		otographic (other than cinematographic)	No	4 0%		208
		largers and reducers	NO	4.9%	Free (A,E,IL) 3.4% (CA)	20%
9008.90 9008.90.40 0		rts and accessories: Of image projectors, other than				
		cinematographic	X	3.9%	Free (A,E,IL) 2.7% (CA)	35%
9008.90.80 0	00 7	Other	X	5.8%	Free (A,E,IL) 4% (CA)	20%
9009	system apparat	pying apparatus incorporating an optical or of the contact type and thermocopying us; parts and accessories thereof: ectrostatic photocopying apparatus:				
9009.11.00 0	00 9	Operating by reproducing the original image directly onto the copy (direct	No	2 7%	Eroo (A.E. II.)	35%
		process)	NO	3.7%	Free (A,E,IL) 2.5% (CA)	33%
9009.12.00 0	00 8	Operating by reproducing the original image via an intermediate onto the				
	Ot1	copy (indirect process)her photocopying apparatus:	No	3.7%	Free (A,CA,E,IL)	35%
9009.21.00 0	00 7	Incorporating an optical system	No	3.7%	Free (A,E,IL) 2.5% (CA)	35%
9009.22.00 0	00 6	Of the contact type	No	3.7%	Free (A,E,IL) 2.5% (CA)	35%
9009.30.00 0	00 6 The	ermocopying apparatus	No	3.7%	Free (A,E,IL) 2.5% (CA)	35%
9009.90.00	Pa:	rts and accessories Parts and accessories of electrostatic photocopying apparatus operating by		3.9% <u>1</u> /	Free (A,CA,E,IL)	35%
		reproducing the original image via an intermediate onto the copy (indirect process)	Y			
			21			
6	50 0	Parts and accessories of other photocopying apparatus	Х			
9	90 4	Other	X			

 $[\]underline{\textbf{1}}/\text{ Duty on certain parts of electrostatic copying machines temporarily suspended}. \hspace{0.2cm} \textbf{See heading 9902.90.90}.$

Apparatus and equipment for photographic (including cinematographic) laboratories (including apparatus for the projection of circuit patterns on sensitized semiconductor materials), not specified or included elsewhere in this chapter; negatoscopes; projection screens; parts and accessories thereof:				
developing photographic (including cinematographic) film or paper in rolls or for automatically exposing developed film	. X	3.7%	Free (A,E,IL)	35%
Other apparatus and equipment for photographic (including cinematographic)			2.5% (CA)	
laboratories; negatoscopes:				
	No	2.2%	Free (A,CA,E,IL)	35%
Developing tanks			Free (A,E,IL) 2.6% (CA)	45%
splicers and editors, all the foregoing and combinations thereof: Articles containing an optical lens or designed to contain such a lens: Editors and combination				
	X	7.8%	Free (A,CA,E,IL)	45%
Other	x	9%	Free (A.CA.E.II)	45%
				35%
		3.7%	Free (A,CA,E,IL)	35%
	X			
Other	X			
Projection screens Parts and accessories:	. No	4%	Free (A,CA,E,IL)	50%
splicers, editors or any combination				
of the foregoing	X	6.8%	Free (A,CA,E,IL)	45%
Other	x	5.7%	Free (A,CA,E,IL)	45%
3 1 0 8 6 1 5 3 2	(including cinematographic) laboratories (including apparatus for the projection of circuit patterns on sensitized semiconductor materials), not specified or included elsewhere in this chapter; negatoscopes; projection screens; parts and accessories thereof: Apparatus and equipment for automatically developing photographic (including cinematographic) film or paper in rolls or for automatically exposing developed film to rolls of photographic paper. Other apparatus and equipment for photographic (including cinematographic) laboratories; negatoscopes: Contact printers. Developing tanks. Photographic film viewers, titlers, splicers and editors, all the foregoing and combinations thereof: Articles containing an optical lens or designed to contain such a lens: Editors and combination editor-splicers, for cinematographic film. Other. Other Other. Other O	(including cinematographic) laboratories (including apparatus for the projection of circuit patterns on sensitized semiconductor materials), not specified or included elsewhere in this chapter; negatoscopes; projection screens; parts and accessories thereof: Apparatus and equipment for automatically developing photographic (including cinematographic) film or paper in rolls or for automatically exposing developed film to rolls of photographic paper. X. Other apparatus and equipment for photographic (including cinematographic) laboratories; negatoscopes: Contact printers. No. Photographic film viewers, titlers, splicers and editors, all the foregoing and combinations thereof: Articles containing an optical lens or designed to contain such a lens: Editors and combination editor-splicers, for cinematographic film. X. Other. X. Other	(including cinematographic) laboratories (including apparatus for the projection of circuit patterns on sensitized semiconductor materials), not specified or included elsewhere in this chapter; negatoscopes; projection screens; parts and accessories thereof: Apparatus and equipment for automatically developing photographic (including cinematographic) film or paper in rolls or for automatically exposing developed film to rolls of photographic paper X. 3.7% Other apparatus and equipment for photographic (including cinematographic) laboratories; negatoscopes: Contact printers	(including cinematographic) laboratories (including apparatus for the projection of circuit patterns on sensitized semiconductor materials), not specified or included elsewhere in this chapter; negatoscopes; projection screens; parts and accessories thereof: Apparatus and equipment for automatically developing photographic (including cinematographic) film or paper in rolls or for automatically exposing developed film to rolls of photographic paper. X. 3.7% Free (A,E,IL) Other apparatus and equipment for photographic (including cinematographic) laboratories; negatoscopes: Contact printers. No 2.2% Free (A,CA,E,IL) Photographic film viewers, titlers, splicers and editors, all the foregoing and combinations thereof: Articles containing an optical lens or designed to contain such a lens: Editors and combination editor-splicers, for cinematographic film. X. 7.8% Free (A,CA,E,IL) Other. X. 9% Free (A,CA,E,IL) Other. X. 4.7% Free (A,CA,E,IL) Apparatus for the projection of circuit patterns on sensitized semiconductor materials 1/: Direct write on wafer apparatus: Direct write on wafer apparatus: Sebeam. No Other. X Step and repeat aligners. No Other. X Step and repeat aligners on Other. X Step and repeat aligners on Other. X Step and repeat aligners on Other. X Other. S Oth

 $[\]underline{1}/\text{ See statistical note 1 to section XVI regarding semiconductor manufacturing and testing machines and apparatus.}$

9011	Compound optical microscopes, including those for photomicrography, cinemicrography or microprojection; parts and accessories thereof:				
9011.10	Stereoscopic microscopes:				
9011.10.40 00 8	Provided with a means for photographing			_	
	the image			Free (A,E,IL) 3.4% (CA)	20%
9011.10.80 00 9	Other	No	9%	Free (A,E,IL)	45%
				6.3% (CA)	
9011.20	Other microscopes, for photomicrography,				
9011.20.40 00 6	cinemicrography or microprojection:				
9011.20.40 00 6	Provided with a means for photographing the image	No	4 0%	Free (A.E.IL)	2.0%
	the image	NO	4.3%	3.4% (CA)	20%
9011.20.80 00 7	Other	No	9%	Free (A,E,IL)	45%
3011120.00 00 /	00102		,	6.3% (CA)	150
9011.80.00 00 1	Other microscopes	No	8%	Free (A,E,IL)	45%
	•			5.6% (CA)	
9011.90.00 00 9	Parts and accessories	No	7.2%	Free (A,E,IL)	45%
				5% (CA)	
9012	Microscopes other than optical microscopes; diffraction apparatus; parts and accessories thereof:				
9012.10.00 00 5	Microscopes other than optical microscopes;				
	diffraction apparatus	Х	4.4%	Free (A,E,IL)	40%
	**			3% (CA)	
9012.90.00 00 8	Parts and accessories	X	6.2%	Free (A,E,IL)	40%
				4.3% (CA)	

9013	Liquid crystal devices not constituting articles provided for more specifically in other headings; lasers, other than laser diodes; other optical appliances and instruments, not specified or included elsewhere in this chapter; parts and				
9013.10	accessories thereof: Telescopic sights for fitting to arms; periscopes; telescopes designed to form parts of machines, appliances, instruments or apparatus of this chapter or section XVI: Telescopic sights for rifles:				
9013.10.10 00 2	Not designed for use with				
9013.10.10 00 2	infrared light	No	2.0%	Free (A,E,IL)	45%
	Initiated light	NO	20%	14% (CA)	45%
9013.10.30 00 8	Other	No	2.2%	Free (A,E,IL)	35%
				1.5% (CA)	
9013.10.40 00 6	Other	No	8%	Free (A,E,IL) 5.6% (CA)	45%
9013.20.00 00 2	Lasers, other than laser diodes	No	3.9%	Free (A,E,IL) 2.7% (CA)	35%
9013.80 9013.80.20 00 5	Other devices, appliances and instruments: Hand magnifiers, magnifying glasses, loupes, thread counters and similar				
	apparatus	No	6.6%	Free (A,E,IL) 4.6% (CA)	45%
9013.80.40 00 1	Door viewers (door eyes)	No	5.8%	Free (A,E,IL) 4% (CA)	60%
9013.80.60 00 6	Other	X	9%	Free (A,E,IL) 6.3% (CA)	45%
9013.90	Parts and accessories:				
9013.90.20 00 3	Of telescopic sights for rifles	X	20%	Free (A,E,IL) 14% (CA)	45%
9013.90.40 00 9	Other	х	9%	Free (A,E,IL) 6.3% (CA)	45%

9014		Direction finding compasses; other navigational instruments and appliances; parts and accessories thereof:					
9014.10		Direction finding compasses:					
9014.10.10 0	00 1	Optical instruments	No	7.9%	Free 5.5%	(A,C,E,IL) (CA)	45%
		Other:					
9014.10.60 0	0 0	Gyroscopic compasses, other than					
		electrical	No	3.9%	Free 2.7%	(A,C,E,IL) (CA)	35%
		Other:					
9014.10.70		Electrical		4.9%	Free 3.4%	(A,C,E,IL) (CA)	40%
3	30 2	Gyroscopic compasses	No.				
6	50 5	Other					
9014.10.90 0	00 4	Other	No	5.7%	Free	(A,C,E,IL) (CA)	45%
9014.20		Instruments and appliances for aeronautical					
		or space navigation (other than compasses):					
9014.20.20 0	0 7	Optical instruments and appliances	No	5.6%	Free 3.9%	(A,C,E,IL)	45%
		Other:			5.50	(011)	
9014.20.40 0	00 3	Automatic pilots	No	4.2%	Free 2.9%	(A,C,E,IL) (CA)	40%
		Other:					
9014.20.60 0	8 00	Electrical	No	4.9%		(A,C,E,IL) (CA)	40%
9014.20.80		Other		Free		,	30%
4	10 6	For use in civil aircraft					
8	30 7	Other	No.				
9014.80		Other instruments and appliances:					
9014.80.10 0	00 6	Optical instruments	No	5.6%	Free 3.9%	(A,E,IL) (CA)	45%
		Other:					
9014.80.20 0	004	Ships' logs and depth-sounding					
		appāratus	No	4.8%	Free 3.3%	(A,E,IL) (CA)	70%
		Other:					
9014.80.40 0	0 0	Electrical	No	4.9%	Free	(A,CA,E,IL)	40%
9014.80.50 0	00 7	Other	No	Free			30%
9014.90		Parts and accessories:					
9014.90.10 0	00 4	Of articles covered by subheading					
3011.30.10	, ,	9014.20.40	X	4.2%	Free 2.9%	(A,C,E,IL)	40%
9014.90.20		Of articles covered by subheading				/	
		9014.20.80		Free			30%
4	10 4	For use in civil aircraft		1100			500
	30 5	Other					
9014.90.40 0		Of articles covered by subheading	110.				
JU14.JU.4U U	000	9014.80.50	v	Free			30%
		JU14.0U.JU	Δ	1160			300
9014.90.60 0	00 3	Other	х	4.9%	Free	(A,C,E,IL) (CA)	40%

9015	Surveying (including photogrammetrical surveying), hydrographic, oceanographic, hydrological, meteorological or geophysical instruments and appliances, excluding compasses; rangefinders; parts_and accessories thereof:				
9015.10 9015.10.40 00 4	Rangefinders: Electrical	No	4.9%	Free (A,E,IL) 3.4% (CA)	40%
9015.10.80 00 5	Other	No	5.6%	Free (A,E,IL) 3.9% (CA)	45%
9015.20 9015.20.40 00 2	Theodolites and tachymeters: Electrical	No	4.9%	Free (A,E,IL)	40%
9015.20.80 00 3	Other		5.6%	3.4% (CA) Free (A,E,IL)	45%
9015.30	Levels:			3.9% (CA)	
9015.30.40 00 0	Electrical	No	4.9%	Free (A,E,IL) 3.4% (CA)	40%
9015.30.80 00 1	Other	No	5.6%	Free (A,E,IL) 3.9% (CA)	45%
9015.40	Photogrammetrical surveying instruments and appliances:				
9015.40.40 00 8	Electrical	X	4.9%	Free (A,E,IL) 3.4% (CA)	40%
9015.40.80 00 9	Other	х	6%	Free (A,E,IL) 4.2% (CA)	40%
9015.80 9015.80.20 00 3	Other instruments and appliances: Optical instruments and appliances	x	5.6%	Free (A,E,IL) 3.9% (CA)	45%
9015.80.60 00 4 9015.80.80	Other: Seismographs Other		4.9% 4.9%	Free (A,CA,E,IL) Free (A,E,IL) 3.4% (CA)	40% 40%
40 2	Geophysical instruments and appliances	Х		3.4% (CA)	
9015.90.00	Other Parts and accessories		The rate applicable to the article of which it is a part or accessory	Free (A,E,IL) The rate applicable to the article of which it is a part or accessory (CA)	The rate applicable to the article of which it is a part or accessory
10 3 20 1	Of rangefindersOf theodolites and tachymeters				
30 9 40 7	Of levels				
10 ,	instruments and apparatus	X			
50 <u>4</u> 60 <u>2</u>	Of seismographs Of other geophysical instruments and appliances				
90 6	Other	Х			
9016.00	Balances of a sensitivity of a 5 cg or better, with or without weights; parts and accessories	1			
9016.00.20 00 9	thereof: Electrical balances and parts and accessories thereof	X	4.9%	Free (A,E,IL) 3.4% (CA)	40%
0016 00 40 00 5	Other:			J. 70 (CA)	
9016.00.40 00 5	Jewelers' balances and parts and accessories thereof	х	5.7%	Free (A,E,IL) 3.9% (CA)	45%
9016.00.60 00 0	Other	X	6.6%	Free (A,E,IL) 4.6% (CA)	40%

9017		Drawing, marking-out or mathematical calculating instruments (for example, drafting machines, pantographs, protractors, drawing sets, slide rules, disc calculators); instruments for measuring length, for use in the hand (for example, measuring rods and tapes, micrometers, calipers), not specified or included elsewhere in this chapter; parts and accessories thereof:				
9017.10.00	00 0	Drafting tables and machines, whether or not automatic	x	4.9%	Free (A,E,IL)	45%
9017.20		Other drawing, marking-out or mathematical			3.4% (CA)	
9017.20.40	00 0	calculating instruments: Disc calculators, slide rules and other mathematical calculating instruments	X	4.9%	Free (A,E,IL)	40%
9017.20.80		Other		5.8%	3.4% (CA) Free (A,E,IL) 4% (CA)	45%
	40 3	Hand operated input devices which transmit position data to computer processors or displays (digitizers)	No.		,	
	70 6	Pattern generating apparatus designed to produce masks and reticles from photoresist coated substrates (such as optical, E-beam, focused ion beam, X-ray or laser beam apparatus except those of subheading 8456.90.10) 1/	No.			
9017.30	90 2	Other Micrometers, calipers and gauges:	Х			
9017.30.40	00 8	Micrometers and calipers	No	5.8%	Free (A,E,IL) 4% (CA)	45%
9017.30.80	00 9	Other	х	4.9%	Free (A,E,IL) 3.4% (CA)	45%
9017.80.00	00 5	Other instruments	х	5.3%	Free (A,E,IL) 3.7% (CA)	45%
9017.90.00		Parts and accessories		The rate applicable to the article of which it is a part or accessory	Free (A,E,IL) The rate applicable to the article of which it is a part or accessory (CA)	The rate applicable to the article of which it is a part or acces- sory
	10 1 20 9 30 7 40 5 50 2 60 0	Of articles of subheading 9017.10 Of articles of subheading 9017.20.40 Of articles of subheading 9017.20.80 Of articles of subheading 9017.30.40 Of articles of subheading 9017.30.80 Other	X X X X			-

 $[\]underline{1}/$ See statistical note 1 to section XVI regarding semiconductor manufacturing and testing machines and apparatus.

9018		surgical, dental or including scintigra electro-medical apprinstruments; parts Electro-diagno apparatus for examination or parameters); p	pliances used in medical, teterinary sciences, uphic apparatus, other paratus and sight-testing and accessories thereof: sstic apparatus (including functional exploratory for checking physiological earts and accessories thereof: rdiographs, and parts					
3010.11.00			sories thereof		4.2%	Free 2.9%	(A,E,IL) (CA)	35%
9018.19 9018.19.40	40 0 80 1	Part Other:	trocardiographss and accessories ratus for functional					
9016.19.40	00 2	expl	oratory examination, and parts					
		and .	accessories thereof	Х	7.9%	Free 5.5%	(A,E,IL) (CA)	55%
9018.19.80		Othe	r		4.2%	Free 2.9%	(A,E,IL) (CA)	35%
	20 9		Complete patient monitoring systems, incorporating component modules for monitoring such functions as temperature, blood pressure and pulse	X				
	30 7		Basal metabolism and blood pressure apparatus	X				
	35 2		Electroencephalographs (EEG) and electromyographs (EMG)	No.				
9018.20.00	45 0 50 2 60 0		Ultrasonic scanning apparatus Other apparatus Parts and accessories infrared ray apparatus, and ssories thereof	X X	4.2%	Free	(A,E,IL)	35%
	40 9 80 0	Therapeut	ic	Х		2.9%		330
	80 0	Other		X				

9018 (con.)		Instruments and appliances used in medical, surgical, dental or veterinary sciences, including scintigraphic apparatus, other electro-medical apparatus and sight-testing instruments; parts and accessories thereof (con.): Syringes, needles, catheters, cannulae and the like; parts and accessories thereof: Syringes, with or without needles;				
5010.51.00		parts and accessories thereof		8.4%	Free (A,E,IL) 5.8% (CA)	60%
		Syringes, with or without their needles:			3.00 (611)	
	40 6 80 7 90 5	HypodermicOtherParts and accessories	No.			
9018.32.00	00 3	Tubular metal needles and needles for sutures and parts and accessories				
		thereof	X	6.4%	Free (A,E,IL) 4.4% (CA)	55%
9018.39.00		Other		4.2%	Free (A,E,IL) 2.9% (CA)	30%
		Bougies, catheters, drains and sondes, and parts and accessories thereof:			2.30 (CII)	
	20 2 40 8 50 5	Rubber catheters	X			
9018.41.00	00 2	Dental drill engines, whether or not combined on a single base with other dental equipment, and parts and				
		accessories thereof	х	4.7%	Free (A,E,IL) 3.2% (CA)	35%
9018.49 9018.49.40	00 6	Other: Dental burs	Gross	6.2%	Free (A,E,IL)	35%
	00 0			**-*	4.3% (CA)	
9018.49.80	40 9	Other Dental hand instruments and parts and accessories thereof		4.7%	Free (A,CA,E,IL)	35%
0010 50 00	80 0	Other	X			
9018.50.00	00 0	Other ophthalmic instruments and appliances and parts and accessories thereof	x	10%	Free (A,E,IL) 7% (CA)	60%

9018 (con.)	Instruments and appliances used in medical, surgical, dental or veterinary sciences, including scintigraphic apparatus, other electro-medical apparatus and sight-testing instruments; parts and accessories thereof (con.):					
9018.90	Other instruments and appliances and parts and accessories thereof: Optical instruments and appliances					
9018.90.10 00 0	and parts and accessories thereof: Mirrors and reflectors	x	9%	Free 6.3%	(A,E,IL)	45%
9018.90.20 00 8	Other	х	10%		(A,E,IL)	60%
9018.90.30 00 6	Other: Anesthetic instruments and appliances and parts and accessories thereof	x	5.7%	Free	(A,E,IL)	45%
9018.90.40 00 4	Percussion hammers, stethoscopes			3.9%		
0010 00 50	and parts of stethoscopes	X	5.7%	Free 3.9%	(A,E,IL) (CA)	45%
9018.90.50	Sphygmomanometers, tensimeters and oscillometers; all the foregoing and parts and accessories thereof		3.4%	Froo	(A,E,IL)	27.5%
40 3	Sphygmomanometers and		3.4%	2.3%		27.5%
10 3	parts and accessories thereof	Х				
80 4	Other Electro-medical instruments and appliances and parts and accessories thereof:	Х				
9018.90.60 00 9	Electro-surgical instruments and appliances, other than extracorporeal shock wave lithotripters; all the foregoing and parts and					
	accessories thereof	X	7.9%	Free 5.5%	(A,E,IL) (CA)	55%
9018.90.70	OtherDialysis instruments and apparatus		4.2%		(A,CA,E,IL)	35%
	Other therapeutic appliances and					
40 9	instruments: Ultrasonic	x				
60 4	Other					
70 2	Parts and accessories of dialysis instruments					
	and apparatus	X				
80 0	Other	X				
9018.90.80 00 5	Other	X	7.9%	Free 5.5%	(A,E,IL) (CA)	55%

9019	Mechano-therapy appliances; massage apparatus; psychological aptitude-testing apparatus; ozone therapy, oxygen therapy, aerosol therapy, artificial respiration or other therapeutic respiration apparatus; parts and accessories thereof:				
9019.10	Mechano-therapy appliances; massage apparatus; psychological aptitude-testing apparatus; parts and accessories thereof:				
9019.10.20 00 4	Mechano-therapy appliances and massage apparatus;				
	parts and accessories thereof X	4.2%	Free 2.9%	(A,E,IL) (CA)	35%
0010 10 40 00 (Other:				
9019.10.40 00 (Electrically operated apparatus and parts thereof X	4.2%	Free 2.9%	(A,E,IL) (CA)	35%
9019.10.60 00 5	Other X	7.9%		(A,E,IL)	55%
9019.20.00 00 6	Ozone therapy, oxygen therapy, aerosol therapy, artificial respiration or other therapeutic respiration apparatus;		3.30	(61)	
	parts and accessories thereof X	3.7%	Free	(A,CA,E,IL)	35%
9020.00	Other breathing appliances and gas masks, excluding protective masks having neither mechanical parts nor replaceable filters;				
9020.00.40 00 9	parts and accessories thereof: Underwater breathing devices designed				
	as a complete unit to be carried on the person and not requiring attendants X	Free			27.5%
9020.00.60 00 4	Other breathing appliances and gas masks ${\tt X}$	3.7%	Free 2.5%	(A,C,E,IL)	35%
9020.00.90 00 8	Other X	3.7%		(A,E,IL)	35%

9021	Orthopedic appliances, including crutches, surgical belts and trusses; splints and other fracture appliances; artificial parts of the body; hearing aids and other appliances which are worn or carried, or implanted in the body, to compensate for a defect or disability; parts and accessories thereof: Artificial joints and other orthopedic or fracture appliances; parts and				
9021.11.00 00 3	accessories thereof: Artificial joints and parts and accessories thereof	x	7.2%	Free (A,E,IL)	55%
			,.20	5% (CA)	330
9021.19	Other:				
9021.19.40 00 7	Bone plates, screws and nails, and other internal fixation devices or				
	appliances	x	7.2%	Free (A,E,IL) 5% (CA)	55%
9021.19.80 00 8	Other	X	5.8%	Free (A,E,IL) 4% (CA)	40%
	Artificial teeth and dental fittings, and				
9021.21	<pre>parts and accessories thereof: Artificial teeth and parts and</pre>				
9021.21	accessories thereof:				
9021.21.40 00 3	Of plastics		5%	Free (A,E,IL) 3.5% (CA)	20%
9021.21.80 00 4	Other	X	9%	Free (A,E,IL) 6.3% (CA)	70%
9021.29	Other:			_	
9021.29.40 00 5	Of plastics		5%	Free (A,E,IL) 3.5% (CA)	20%
9021.29.80 00 6	Other	X	9%	Free (A,E,IL) 6.3% (CA)	70%
9021.30.00 00 0	Other artificial parts of the body and parts and accessories thereof	Y	5.8%	Free (A,E,IL)	40%
9021.40.00 00 8	Hearing aids, excluding parts and accessories	Α	5.00	4% (CA)	400
3021.10.00 00 0	thereof	No	4.2%	Free (A,E,IL) 2.9% (CA)	35%
9021.50.00 00 5	Pacemakers for stimulating heart muscles,				
	excluding parts and accessories thereof	No	4.2%	Free (A,E,IL) 2.9% (CA)	35%
9021.90	Other:				
9021.90.40	Parts and accessories for hearing aids and for pacemakers for stimulating		4 00	Date (2 D TI)	2.50
40 1	heart muscles For hearing aids		4.28	Free (A,E,IL) 2.9% (CA)	35%
80 2	Other				
9021.90.80 00 0	Other		3.9%	Free (A,E,IL) 2.7% (CA)	35%

9022	Apparatus based on the use of X-rays or of alpha, beta or gamma radiations, whether or not for medical, surgical, dental or veterinary uses, including radiography or radiotherapy apparatus, X-ray tubes and other X-ray generators, high tension generators, control panels and desks, screens, examination or treatment tables, chairs and the like; parts and accessories thereof: Apparatus based on the use of X-rays, whether or not for medical, surgical, dental or veterinary uses, including radiography or radiotherapy apparatus: For medical, surgical, dental or					
3022.11.00	veterinary uses	x	2.1%	Free (A, 1.4% (CA		35%
9022.19.00 00 4	For other uses	х	2.1%	Free (A, 1.4% (CA		35%
9022.21.00 00 0	Apparatus based on the use of alpha, beta or gamma radiations, whether or not for medical, surgical, dental or veterinary uses, including radiography or radiotherapy apparatus: For medical, surgical, dental or					
	veterinary uses	Х	4%	Free (A,	,CA,E,IL)	35%
9022.29 9022.29.40 00 4	For other uses:	Ma	2.7%	D (34	+ D = TI \	2 = 0.
	Smoke detectors, ionization type		2.7%	1.8% (CA		35%
9022.29.80 00 5	Other		4%		,CA,E,IL)	35%
9022.30.00 00 9	X-ray tubes	No	2.5%	Free (A, 1.7% (CA		35%
9022.90	Other, including parts and accessories:					
9022.90.20 00 2	Other apparatus	X	2.1%	Free (A, 1.4% (CA		35%
	Parts and accessories:		0 =0	- /-	\	0 = 0
9022.90.40 00 8	Of X-ray tubes	X	2.5%	Free (A, 1.7% (CA		35%
	Other:					
9022.90.60 00 3	Of apparatus based on the			_ ,_	,	
	use of X-rays	X	2.1%	Free (A, 1.4% (CA		35%
9022.90.70 00 1	Of smoke detectors,					
	ionization type		2.7%	Free (A, 1.8% (CA		35%
9022.90.90 00 7	Other	X	4%	Free (A, 2.8% (CA		35%

9023.00.00 00 4	Instruments, apparatus and models, designed for demonstrational purposes (for example, in education or exhibitions), unsuitable for other uses, and parts and accessories thereofX	Free		Free
9024	Machines and appliances for testing the hardness, strength, compressibility, elasticity or other mechanical properties of materials (for example, metals, wood, textiles, paper, plastics), and parts and accessories thereof:			
9024.10.00 00 1	Machines and appliances for testing metals X	4.8%	Free (A,E,IL) 3.3% (CA)	40%
9024.80.00 00 6	Other machines and appliances X	4.8%	Free (A,E,IL) 3.3% (CA)	40%
9024.90.00	Parts and accessories	4.8%	Free (A,E,IL) 3.3% (CA)	40%
40 6	Of machines and appliances for testing metalsX		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
80 7	Other X			

9025		Hydrometers and similar floating instruments, thermometers, pyrometers, barometers, hygrometers and psychrometers, recording or not, and any combination of these instruments; parts and accessories thereof: Thermometers, not combined with other instruments:				
9025.11		Liquid-filled, for direct reading:				
9025.11.20	00 5	Clinical	No	17%	Free (A*,E,IL) 11.9% (CA)	85%
9025.11.40	00 1	Other	No	8.4%	Free (A,C,E,IL) 5.8% (CA)	85%
9025.19.00		Other		5%	Free (A,B,C,E,IL) 3.5% (CA) 1/	40%
	40 3	Clinical	No.		_	
	80 4	Other	No.			
9025.20		Barometers, not combined with other instruments:				
9025.20.40	00 0	Electrical	No	4.9%	Free (A,C,E,IL) 3.4% (CA)	40%
9025.20.80	00 1	Other	No	2.8%	Free (A,C,E,IL) 1.9% (CA)	40%
9025.80		Other instruments:				
9025.80.10	00 3	Electrical	No	4.9%	Free (A,C,E,IL) 3.4% (CA)	40%
		Other:				
9025.80.20	00 1	Hydrometers and similar floating instruments, whether or not				
		incorporating a thermometer,			- ()	0.50
0005 00 00		non-recording	No	8.4%	Free (A,C,E,IL) 5.8% (CA)	85%
9025.80.30	00 9	Hygrometers, psychrometers and pyrometers, non-recording	No	3.9%	Free (A,C,E,IL) 2.7% (CA)	45%
9025.80.40	00 7	Thermographs, barographs, hygrographs and other recording			2.76 (CA)	
		instruments	No	3%	Free (A,C,E,IL) 2.1% (CA)	35%
9025.80.50	00 4	Other	No	4.7%	Free (A,C,E,IL) 3.2% (CA)	50%
9025.90.00	00 3	Parts and accessories	X	The rate applicable to the article of which it is a part or accessory	Free (A,C,E,IL) The rate applicable to the article of which it is a part or accessory (CA) 1/	The rate applicable to the article of which it is a part or accessory

^{1/} Equipment, originating in the territory of Canada, intended for use in the repair or maintenance of certain motor vehicles subject to accelerated staged rate reductions. See heading 9905.

9026.10	Instruments and apparatus for measuring or checking the flow, level, pressure or other variables of liquids or gases (for example, flow meters, level gauges, manometers, heat meters), excluding instruments and apparatus of heading 9014, 9015, 9028 or 9032; parts and accessories thereof: For measuring or checking the flow or				
	level of liquids:				
9026.10.20	Electrical		4.9%	Free (A,B,C,E,IL) 1.9% (CA)	40%
40 7 80 8	Flow meters				
9026.10.40 00 1	Flow meters	No	49¢ each + 7.6%	Free (A,C,E,IL) 19.6¢ each + 3% (CA)	\$4.50 each + 65%
9026.10.60 00 6	Other	No	4.7%	Free (A,B,C,E,IL) 1.8% (CA)	35%
9026.20	For measuring or checking pressure:				
9026.20.40 00 9	Electrical	No	4.9%	Free (A,B,C,E,IL) 1.9% (CA)	40%
9026.20.80 00 0	Other	No	4.7%	Free (A,B,C,E,IL) 1.8% (CA)	35%
9026.80	Other instruments and apparatus:				
9026.80.20 00 0	Electrical	No	4.9%	Free (A,B,C,E,IL) 1.9% (CA)	40%
	Other:				
9026.80.40 00 6	Heat meters incorporating liquid				
3020100110 00 0	supply meters, and anemometers	No	49¢ each + 7.6%	Free (A,C,E,IL) 19.6¢ each + 3% (CA)	\$4.50 each + 65%
9026.80.60 00 1	Other	No	4.7%	Free (A,B,C,E,IL) 1.8% (CA)	35%
9026.90	Parts and accessories:				
9026.90.20 00 8	Of electrical instruments and apparatus	X	4.9%	Free (A,B,C,CA,E, IL)	40%
9026.90.40 00 4	Other: Of flow meters, heat meters incorporating liquid supply				
	meters and anemometers	X	9%	Free (A,C,E,IL) 3.6% (CA)	65%
9026.90.60 00 9	Other	X	4.7%	Free (A,B,C,E,IL) 1.8% (CA)	35%

9027		Instruments and apparatus for physical or chemical analysis (for example, polarimeters, refractometers, spectrometers, gas or smoke analysis apparatus); instruments and apparatus for measuring or checking viscosity, porosity, expansion, surface tension or the like; instruments and apparatus for measuring or checking quantities of heat, sound or light (including exposure meters); microtomes; parts and accessories thereof:				
9027.10 9027.10.20	00 4	Gas or smoke analysis apparatus: Electrical	x	4.9%	Free (A,E,IL) 3.4% (CA)	40%
0027 10 40	00 0	Other:	v	10%	Eman (A E II)	E0%
9027.10.40		Optical instruments and apparatus Other		10%	Free (A,E,IL) 7% (CA) Free (A,E,IL)	50% 40%
9027.20	00 5	Chromatographs and electrophoresis		0.20	4.3% (CA)	100
9027.20.40		instruments:		4 0%	E (3 E II)	40%
9027.20.40	40 0	Electrical Electrophoresis instruments		4.9%	Free (A,E,IL) 3.4% (CA)	406
	50 7	Gas chromatographs	No.			
	60 5 80 1	Liquid chromatographs				
9027.20.80	80 I	Other		6.2%	Free (A,E,IL) 4.3% (CA)	40%
	30 3	Gas chromatographs			, ,	
	60 6 90 0	Liquid chromatographs				
9027.30		Spectrometers, spectrophotometers and spectrographs using optical radiations (ultraviolet, visible, infrared):				
9027.30.40		Electrical		4.9%	Free (A,E,IL)	40%
	40 8 80 9	SpectrophotometersOther			3.4% (CA)	
9027.30.80	00 5	Other		10%	Free (A,E,IL) 7% (CA)	50%
	20 3	Spectroscopes			7% (CA)	
0007 40 00	80 0	Other		2.4%	Erros (A E II)	27 5%
9027.40.00	00 2	Exposure meters Other instruments and apparatus using	NO	3.4%	Free (A,E,IL) 2.3% (CA)	27.5%
3027.30		optical radiations (ultraviolet, visible, infrared):				
9027.50.40		Electrical		4.9%	Free (A,E,IL)	40%
	15 4	Chemical analysis instruments			3.4% (CA)	
		and apparatus	No.			
	20 7	Thermal analysis instruments and apparatus	No.			
	50 0	Photometers	No.			
9027.50.80	60 8	OtherOther		10%	Free (A,E,IL)	50%
	15 5	Chemical analysis instruments and apparatus	No.		7% (CA)	
	20 8	Thermal analysis instruments and apparatus	No.			
	60 9	Other	No.			

9027 (con.)		Instruments and apparatus for physical or chemical analysis (for example, polarimeter refractometers, spectrometers, gas or smoke analysis apparatus); instruments and appara for measuring or checking viscosity, porosi expansion, surface tension or the like; instruments and apparatus for measuring or checking quantities of heat, sound or light (including exposure meters); microtomes; pa and accessories thereof (con.):	e itus ty,					
9027.80 9027.80.40		Other instruments and apparatus: Electrical			4.9%	Free	(A,E,IL)	40%
	10 3	Nuclear magnetic resonance instruments		No		3.10	(CII)	
	20 1	Mass spectroscopes		No.				
	30 9	Other: Chemical analysis instru and apparatus		X				
	60 2	Physical analysis instruand apparatus		X				
9027.80.80	90 6	Other			6.2%	Free 4.3%	(A,E,IL)	40%
	30 0	Chemical analysis instruments and apparatus		X		4.3%	(CA)	
	60 3	Physical analysis instruments and apparatus		X				
9027.90	90 7	Other		X				
9027.90.20	00 7	Microtomes		No	6.2%	Free 4.3%	(A,E,IL) (CA)	40%
9027.90.40		Parts and accessories: Of electrical instruments and apparatus			4.9%	Free	(A,E,IL)	40%
	10 1	Of articles of subheading 9027.10.20		X			,	
	20 9	Of articles of subheading 9027.20.40		X				
	30 7	Of articles of subheading 9027.30.40		X				
	40 5	Of articles of subheading 9027.40		X				
	50 2	Of articles of subheading 9027.50.40		Х				
	60 0	OtherOther:		X				
9027.90.60	00 8	Of optical instruments a apparatus		х	10%	Free	(A,E,IL)	50%
9027.90.80	00 4	Other		х	6.2%	7% (C Free 4.3%	(A,E,IL)	40%

9028	Gas, liquid or electricity supply or production meters, including calibrating meters thereof;				
	parts and accessories thereof:				
9028.10.00 00 7	Gas meters	No	45¢ each + 7%	Free (A,E,IL) 31.5¢ each + 4.9% (CA)	\$4.50 each + 65%
9028.20.00 00 5	Liquid meters	No	45¢ each + 7%	Free (A,E,IL) 31.5¢ each + 4.9% (CA)	\$4.50 each + 65%
9028.30.00 00 3	Electricity meters	No	45¢ each + 4.4%	Free (A,E,IL) 31.5¢ each +	\$4.50 each + 65%
9028.90.00	Parts and accessories		9%	3% (CA) Free (A,E,IL) 6.3% (CA)	65%
40 2	Of electricity meters	X		(,	
80 3	Other	X			
9029	Revolution counters, production counters, taximeters, odometers, pedometers and the like; speedometers and tachometers, other than those of heading 9015; stroboscopes; parts and				
	accessories thereof:				
9029.10	Revolution counters, production counters, taximeters, odometers, pedometers and the like:				
9029.10.40 00 8	Taximeters	No	15%	Free (A,B,E,IL)	85%
3023.10.10 00 0	141111111111111111111111111111111111111		100	10.5% (CA)	000
9029.10.80 00 9	Other	No	Free		35%
9029.20	Speedometers and tachometers; stroboscopes:				
9029.20.20 00 0	Bicycle speedometers	No	17%	Free (E,IL) 11.9% (CA)	110%
9029.20.40	Other speedometers and tachometers		Free		35%
40 8	For use in civil aircraft	No.			
80 9	Other	No.			
9029.20.60 00 1	Stroboscopes	No	45¢ each + 7%	Free (A,E,IL) 31.5¢ each + 4.9% (CA) <u>1</u> /	\$4.50 each + 65%
9029.90	Parts and accessories:				
9029.90.20 00 5	Of taximeters	X	15%	Free (A,B,E,IL) 10.5% (CA) 1/	85%
9029.90.40 00 1	Of bicycle speedometers	X	17%	Free (E,IL) 11.9% (CA)	110%
9029.90.60 00 6	Of stroboscopes	X	9%	Free (A,E,IL) 6.3% (CA) 1/	65%
9029.90.80	Other		Free	(GLZ) <u>-</u> /	35%
40 4	Of speedometers and tachometers				
80 5	Other				

^{1/} Equipment, originating in the territory of Canada, intended for use in the repair or maintenance of certain motor vehicles subject to accelerated staged rate reductions. See heading 9905.

9030		Oscilloscopes, spectrum analyzers and other instruments and apparatus for measuring or checking electrical quantities, excluding meters of heading 9028; instruments and apparatus for measuring or detecting alpha, beta, gamma, X-ray, cosmic or other ionizing radiations; parts and accessories thereof:					
9030.10.00	00 3	Instruments and apparatus for measuring or detecting ionizing radiations	No	4.7%	Free	(A,C,E,IL) (CA)	40%
9030.20.00	00 1	Cathode-ray oscilloscopes and cathode-ray					
		oscillographs	No	4.9%	Free	(A,C,E,IL) (CA)	40%
		Other instruments and apparatus, for measuring or checking voltage, current, resistance or power, without a recording device:					
9030.31.00	00 8	Multimeters	No	4.9%	Free	(A,B,C,CA,E, IL)	40%
9030.39.00		Other		4.9%		(A,B,C,E,IL) (CA) 1/	40%
	40 2	For measuring or checking voltage,			1.50	(CII) <u>I</u> /	
		current or resistance	X				
9030.40.00	80 3 00 7	Other	Х				
		instruments, distortion factor meters,					
		psophometers)	X	4.9%	Free	(A,B,C,E,IL) (CA)	40%
		Other instruments and apparatus:					
9030.81.00	00 7	With a recording device			3.4%	(A,B,C,E,IL) (CA) <u>1</u> /	
9030.89.00		Other		4.9%		(A,B,\overline{C},E,IL) (CA) $\underline{1}/$	40%
	40 1	Instruments and apparatus designed to measure and check semiconductor wafers and devices (such as probe testers, resistivity checkers, logic analyzers, automatic integrated circuit testers) 2/	No.				
	80 2	Other	v				
9030.90	00 Z	Parts and accessories:	Λ				
9030.90.40	00 8	For articles of subheading 9030.10	X	4.7%	Free	(A,C,E,IL)	40%
9030.90.80		Other		4.9%	Free	(A,B,C,E,IL) (CA) 1/3/	40%
	10 7 20 5 30 3 40 1 50 8 60 6	Of articles of subheading 9030.20 Of articles of subheading 9030.31 Of articles of subheading 9030.39 Of articles of subheading 9030.40 Of articles of subheading 9030.81 Other	X X X X			· · · · · · · · · · · · · · · · · · ·	

^{1/} Equipment, originating in the territory of Canada, intended for use in the repair or maintenance of certain motor vehicles subject to accelerated staged rate reductions. See heading 9905.

2/ See statistical note 1 to section XVI regarding semiconductor manufacturing and testing machines and apparatus.

3/ Duty suspended or reduced on certain articles originating in the territory of Canada. See subheadings 9905.90.05 and 9905.90.10.

9031		instruments, appliances and d or included elsewhere in projectors; parts and					
9031.10.00 00		ncing mechanical parts	х	4.9%	Free	(A,E,IL)	40%
9031.20.00 00 9031.30.00 00		s		4.9% 7%	Free	(A,CA,E,IL) (A,E,IL)	45% 45%
9031.40.00	For inspecting	truments and appliances ng photomasks used to semiconductor devices $\underline{1}/\dots$		10%		(A,CA,E,IL)	50%
	and devices						
40 60 80	Other	ers	No.				
9031.80.00	Other instruments	, appliances and machines		4.9%		(A,B,C,E,IL) (CA) 2/	40%
60	characterist: combustion en	r testing the ics of internal ngines: ing electrical			3.10	(611) <u>2</u>)	
60		eristics	Х				
70 80 9031.90							
9031.90.20 00		rojectors	х	7%	Free 4.9%	(A,E,IL)	45%
9031.90.40 00		ical instruments and other than test benches	x	10%		(A,CA,E,IL)	50%
9031.90.60	Other			4.9%		(A,B,C,E,IL) (CA) 2/3/	40%
30		ines for balancing cal parts	Х				
60 90		benches					

^{1/} See statistical note 1 to section XVI regarding semiconductor manufacturing and testing machines and apparatus.
2/ Equipment, originating in the territory of Canada, intended for use in the repair or maintenance of certain motor vehicles subject to accelerated staged rate reductions. See heading 9905.
3/ Duty suspended on certain articles originating in the territory of Canada. See subheading 9905.90.15.

9032		Automatic regulating or controlling instruments and apparatus; parts and accessories thereof:					
9032.10.00		Thermostats		4.8%		(A,B,C,E,IL) (CA)	40%
	30 5 60 8 90 2	For air conditioning, refrigeration or heating systems: Designed for wall mounting Other	No.		1.96	(CA)	
9032.20.00		Manostats		4.8%	Free 1.9%	(A,B,C,E,IL) (CA)	35%
9032.81.00		Other instruments and apparatus: Hydraulic and pneumatic		4.7%		(A,B,C,E,IL) (CA) 1/	35%
	20 1 60 2 80 8	Industrial process control instruments and apparatus: Hydraulic Pneumatic Other	No.				
9032.89		Other: Automatic voltage and voltage- current regulators:					
9032.89.20	00 3	Designed for use in a 6, 12 or 24 V system	x	3 1%	Free	(A,B,C,IL)	25%
0000 00 40	00.0	-			2.1%	(CA) <u>1</u> /	
9032.89.40	00 9	Other		4.9%	3.4%	(A,C,E,IL) (CA) <u>1</u> /	35%
9032.89.60		Other		4.9%		(A,B,C,E,IL) (CA) 1/2/	40%
		Control instruments for air conditioning, refrigeration or heating systems:					
	15 7 25 5	Complete systems Other					
	25 5	Process control instruments	Λ				
	30 8	and apparatus: Complete systems	No.				
	40 6	Other: Temperature control	No				
		instruments	NO.				
	50 3	Pressure and draft control instruments	No.				
	60 1	Flow and liquid level control					
		instruments	No.				
	70 9	Humidity control instruments	No.				
	75 4	Other	x				
9032.90	85 2	OtherParts and accessories: Of automatic voltage and voltage-					
9032.90.20	00 0	current regulators: Designed for use in a 6, 12					
5052.50.20	00 0	or 24 V system	X	3.1%		(A,B,C,E,IL)	25%
9032.90.40	00 6	Other	x	4.9%	Free	(CA) <u>1</u> / (A,C,E,IL)	35%
9032.90.60		Other		4.9%	Free	(CA) 1/ (A,B,C,E,IL)	40%
	20 7	Of thermostats			3.48	(CA) <u>1/2</u> /	
	40 3 60 8	Of manostats	X				
		subheading 9032.81	X				
	80 4	Other	Х				

^{1/} Equipment, originating in the territory of Canada, intended for use in the repair or maintenance of certain motor vehicles subject to accelerated staged rate reductions. See heading 9905.
2/ Duty reduced on certain articles originating in the territory of Canada. See subheadings 9905.90.20 and 9905.90.25.

Free (A,B,E,IL) 3.4% (CA) <u>1</u>/ 40%

 $[\]frac{1}{2}$ Equipment, originating in the territory of Canada, intended for use in the repair or maintenance of certain motor vehicles subject to accelerated staged rate reductions. See heading 9905.