UNITED STATES TARIFF COMMISSION

ELECTRONIC CALCULATORS: WORKERS OF THE ACTON, MASS., PLANT OF BOWMAR/ALI, INC.

Report to the President on Investigation No. TEA-W-250 Under Section 301(c)(2) of the Trade Expansion Act of 1962



TC Publication 703
Washington, D.C.
December 1974

UNITED STATES TARIFF COMMISSION

COMMISSIONERS

Catherine Bedell, Chairman Joseph O. Parker, Vice Chairman Will E. Leonard, Jr. George M. Moore Italo H. Ablondi Daniel Minchew

Kenneth R. Mason, Secretary to the Commission

Address all communications to United States Tariff Commission Washington, D.C. 20436

CONTENTS

		Page
Rer	oort to the President	1
,,,	Finding of the Commission	2
	Views of Chairman Bedell, Vice Chairman Parker, and	_
	Commissioner Ablondi	3
	Views of Commissioner Leonard	6
	View of Commissioner Minchew	9
Info	ormation obtained in the investigation:	
	Description and uses	A - 1
	U.S. tariff treatment	A-2
	U.S. producers	A-3
	U.S. consumption and trade	A-4
	U.S. imports	A - 5
	Bowmar Instrument Corp	A-8
	Bowmar/ALI Inc	A-10
	The Acton, Mass. plant	* * *
	Shipments and exports	* * *
	Employment	* * *
	Reasons for the decision to close the Acton,	ala ala ala
	Mass., plant	* * * *
	The Nogales, Sonora, Mexico, plant	* * *
	Cost of producing calculators in Acton, Mass., and Nogales, Mexico	* * *
Stat	tistical appendix	* * *
Dia	isical appendix	, , ,
	Tables	
	14020	
1.	Calculating machines, specially constructed for multi-	
	plying and dividing (pars. 353 (pt.), 372 (pt.), Tariff	
	Act of 1930, and TSUS item 676.20): U.S. rates of	
	duty, 1930-72	A-17
2.	Electronic calculators: U.S. shipments, imports for	
	consumption, exports, and apparent consumption,	
	1970-73 and January-August 1974	A-18
3.	All types of calculators: U.S. rates of duty and imports,	
٠	1947-73 and January-August 1974	A-19
4.	Electronic calculators: U.S. imports for consumption,	
	by source, 1969-73 and January-August 1974	A-20
5.	Electronic calculators: U.S. imports from Mexico of	
•	articles containing U.S. components, 1973 and January-	
	August 1974	A-21
6.	Electronic calculators: U.S. imports from Mexico	
	entered under TSUS item 807.00 by importer and unit	ala alti ili
	value. August 1974	* * *

CONTENTS

		<u>P</u>	ag	<u>e</u>
7.	Electronic calculators: Breakdown of entered value on one of the principal models (MX20) imported by Bowmar, 1974	*	×	*
8.	Electronic calculators: U.S. imports from Japan, by	•	•	•
•	importer and unit value, August 1974	*	*	*
9.	Bowmar/ALI, Inc.: Shipments and exports of hand-held and desk-top electronic calculators, by plants, 1971-			
	73 and January-September 1974	*	*	*
10.	Acton, Mass., plant of Bowmar/ALI, Inc.: Average number of employees, total and production and related workers employed in connection with the manufacture of hand-held electronic calculators, 1972-73 and, by months, September 1973-			
	September 1974	*	氺	米
11.	Standard costs to Bowmar/ALI, Inc., of producing identical model of a hand-held calculator in its Nogales, Mexico, plant and in its Acton, Mass.,			
	plant, 1974	*	*	*

Note. -- The whole of the Commission's report to the President may not be made public since it contains certain information that could result in the disclosure of the operations of an individual concern. This published report is the same as the report to the President, except that the above-mentioned information has been omitted. Such omissions are indicated by asterisks.

REPORT TO THE PRESIDENT

U.S. Tariff Commission, December 6, 1974.

To the President:

In accordance with section 301 of the Trade Expansion Act of 1962 (19 U.S.C. 1901), the U.S. Tariff Commission herein reports the results of investigation No. TEA-W-250 made under section 301(c)(2) of the act to determine whether, as a result in major part of concessions granted under trade agreements, articles like or directly competitive with electronic calculators (of the types provided for in item 676.20 of the Tariff Schedules of the United States (TSUS)) produced by Bowmar/ALI, Inc., Acton, Mass., a wholly owned subsidiary of Bowmar Instrument Corp., Fort Wayne, Ind., are being imported into the United States in such increased quantities as to cause, or threaten to cause, the unemployment or underemployment of a significant number or proportion of the workers of such firm or an appropriate subdivision thereof.

The investigation was instituted on October 16, 1974, on the basis of a petition for adjustment assistance filed under section 301(a)(2) of the act on behalf of the present and former workers of the Acton, Mass., plant. The petition was received October 7, 1974.

Notice of the investigation was published in the <u>Federal Register</u> (39 F.R. 37549) on October 22, 1974. No public hearing was requested and none was held.

The information in this report was obtained from Bowmar/ALI, Inc., other domestic producers and purchasers of electronic calculators, the Electronic Industries Association, the U.S. Customs Service, the petitioners, and the Commission's files.

Finding of the Commission

On the basis of its investigation, the Commission finds unanimously that articles like or directly competitive with the electronic calculators (of the types provided for in item 676.20 of the Tariff Schedules of the United States) produced by Bowmar/ALI, Inc., Acton, Mass., a wholly owned subsidiary of Bowmar Instrument Corp., Fort Wayne, Ind., are not, as a result in major part of concessions granted under trade agreements, being imported into the United States in such increased quantities as to cause, or threaten to cause, the unemployment or underemployment of a significant number or proportion of the workers of such firm or an appropriate subdivision thereof.

Views of Chairman Bedell, Vice Chairman Parker, and Commissioner Ablondi 1/

This investigation relates to a petition filed on behalf of the former workers of the Acton, Mass., plant of Bowmar/ALI, Inc., for a determination under section 301 of the Trade Expansion Act of 1962 of their eligibility to apply for adjustment assistance. The petitioning workers had been employed by Bowmar in the production of hand-held electronic calculators.

Our determination in this investigation is in the negative because the criteria established under section 301(c)(2) of the Trade Expansion Act of 1962 have not been met. Before an affirmative determination based on such criteria can be made, the Commission must find that each of the following considerations has been satisfied:

- (1) imports of an article like or directly competitive with an article produced by the petitioning workers must be increasing;
- (2) the increase in imports must be a result in major part of trade-agreement concessions;
- (3) a significant number or proportion of the workers concerned are unemployed or underemployed, or threatened with unemployment or underemployment; and
- (4) the concession-generated increased imports must be the major factor in causing or threatening to cause the unemployment or underemployment.

Bowmar began the production of electronic calculators in 1971, when the U.S. market for such articles was dominated by imports from Japan. U.S. technological developments in solid state electronics and miniaturization enabled Bowmar to produce a very small,

^{1/} Commissioner Moore concurs in the result.

nexpensive, full-functioning calculator and to attain a dominant position in the U.S. market for hand-held calculators in less than a year.

U.S. production of electronic calculators increased fourfold in 1972, it increased more than threefold in 1973, and will be twice as large in 1974 as in 1973. The increase in scale of production was accompanied by a rapid reduction in the cost of components, by a rapid reduction in the price of calculators, and by a dramatic growth in the U.S. market for calculators. Imports also increased, but the share of imports in the market declined from 82 percent in 1971, the year Bowmar began production, to 52 percent in the first eight months of 1974, the period immediately preceding the closing of the Acton plant.

Bowmar established a calculator assembly plant in Nogales

Mexico in 1973 to complement its output at Acton. Although Bowmar

lost its position as the largest U.S. producer of calculators in 1973,

its sales (as shown by interim corporate reports) continued to grow

and profits were maintained until the quarter ended June 1974, when

sales declined and an operating loss was sustained. The firm subsequently disclosed that owing mainly to lower-than-anticipated calculator prices and overall unit sales, a substantial operating loss was

expected for its fiscal year that ended September 1974. In view of
these circumstances, Bowmar decided to terminate calculator production at Acton and consolidate production at Nogales in order to
reduce production costs and make its calculators more competitive
with those of other suppliers.

The reverses experienced by Bowmar in 1974 and the closing of the Acton plant were not the result in major part of concession-generated imports 1/ but were attributable to intense competition from other technologically advanced domestic producers, including firms which were vertically integrated through the production of large-scale integrated circuits, the principal item of cost in producing electronic calculators.

On the basis of the investigation, we have concluded that increased imports resulting from trade-agreement concessions of articles like or directly competitive with electronic calculators produced at the Acton plant are not the major factor causing the unemployment or underemployment of the petitioning workers, and therefore, we have made a negative determination.

^{1/} For a discussion of the effects of tariff concessions on U.S. imports of electronic calculators, see Calculators, Typewriters, and Typewriter Parts...: Workers of the Elmira, N.Y., Plant of Remington Rand Division, Sperry Rand Corp.: Report to the President on Investigation No. TEA-W-140..., T.C. Publication 492, 1972, pp. 6, 7.

Views of Commissioner Leonard

The affected workers in the investigation were employed in the production of hand-held electronic calculators at the Acton, Mass., plant of Bowmar/ALI, Inc., a wholly owned subsidiary of Bowmar Instrument Corp.

My determination in the instant investigation is in the negative because not all of the conditions imposed by the Trade Expansion Act of 1962 for an affirmative determination have been satisfied. A negative determination is required if any one of the following four criteria is not met:

- (1) an article like or directly competitive with an article produced by the petitioning workers' firm is being imported in increased quantities;
- (2) the increase in imports is a result in major part of trade-agreement concessions;
- (3) a significant number or proportion of the workers concerned are unemployed or underemployed, or are threatened with unemployment or underemployment; and
- (4) the concession-generated increased imports are the major factor in causing or threatening to cause the unemployment or underemployment.

In this investigation I have concluded that the second criterion has not been satisfied, i.e., the increase in imports of electronic calculators is not the result in major part of trade-agreement concessions. My reasoning to support this conclusion follows.

The instant investigation is the second conducted under the Trade Expansion Act of 1962 by the Tariff Commission on electronic

calculators. In the first investigation 1/ the Commission determined unanimously in the negative on the basis that increased imports of electronic calculators, typewriters, and typewriter parts were not the result in major part of trade-agreement concessions. Since I believe that the Commission determination and the basis therefor were correct and supported by the facts at that time--June 1972--there remains only to be determined in this investigation whether any increase in imports of electronic calculators since the previous investigation, that is, since June 1972, is the result in major part of trade-agreement concessions.

The effective date of the last trade-agreement concessions on electronic calculators was January 1, 1972, prior to the previous investigation concerning such articles. The information developed in the instant investigation does not convince me that the concessions which were entirely phased in by January 1, 1972, had substantially more of an effect on increasing imports after June 1972 than such concessions had on increasing imports through June 1972.

What has occurred since June 1972 is a continuing increase in the absolute number of electronic calculators imported into the United States but also a continuing reduction in the share of the U.S. market taken by such imports. Because of technological developments which inured more to the benefit of U.S. electronic calculator producers than to foreign producers, the U.S. industry has

^{1/} Calculators, Typewriters, and Typewriter Parts: Workers of the Elmira, N.Y., Plant of Remington Rand Division, Sperry Rand Corp., Report to the President on Investigation No. TEA-W-140..., TC Publication 492, 1972.

gained an ever-increasing share of an expanding electronic calculator market in the United States, particularly the market for hand-held electronic calculators, which accounts for the great bulk of both U.S. production and U.S. imports of electronic calculators. 1/

Thus it is increased U.S. consumption of electronic calculators, particularly of the hand-held variety, which is chiefly responsible for increased U.S. production and increased U.S. imports of electronic calculators. In such circumstances the increase in imports of electronic calculators cannot be said to be the result in major part of concessions granted under trade agreements. Therefore, a negative determination is necessary.

^{1/} Hand-held electronic calculators were the only type produced by Bowmar/ALI in its Acton, Mass., plant.

View of Commissioner Minchew

In response to the petition filed on behalf of the former workers of the Acton, Mass., plant of Bowmar/ALI, Inc., a wholly owned subsidiary of Bowmar Instrument Corp., Fort Wayne, Ind., for a determination of their eligibility to apply for adjustment assistance under section 301(c)(2) of the Trade Expansion Act of 1962 (TEA), I have concluded that the statutory requirements set forth in section 301(c) of that act are not met and, accordingly, I have made a negative determination.

The TEA sections 301(c)(2) and (3) state that--

- (2) In the case of a petition by a group of workers for a determination of eligibility to apply for adjustment assistance under chapter 3, the Tariff Commission shall promptly make an investigation to determine whether, as a result in major part of concessions granted under trade agreements, an article like or directly competitive with an article produced by such workers' firm, or an appropriate subdivision thereof, is being imported into the United States in such increased quantities as to cause, or threaten to cause, unemployment or underemployment of a significant number or proportion of the workers of such firm or subdivision.
- (3) For purposes of [paragraph] (2), increased imports shall be considered to cause, or threaten to cause, serious injury to a firm or unemployment or underemployment, as the case may be, when the Tariff Commission finds that such increased imports have been the major factor in causing, or threatening to cause, such injury or unemployment or underemployment.

I have concluded that factors other than increased imports of competitive electronic calculators have been the major factor in causing unemployment or underemployment. Specifically, the investigation convinced me that the closing of the Acton, Mass., plant and the subsequent unemployment of its workers resulted more from the highly competitive prices of other domestic producers than from increased imports.

INFORMATION OBTAINED IN THE INVESTIGATION Description and Uses

During the period January 1971-September 1974, the Acton, Mass., plant of Bowmar/ALI, Inc., produced nonprogrammable hand-held electronic calculators. Such calculators were not produced elsewhere in the United States by Bowmar or affiliated companies.

The calculators produced in the Acton, Mass., plant utilize a solid-state calculating mechanism and can add, subtract, multiply, and divide. Some also have an automatic percentage key, other special keys, one or more memories, or provisions for performing trigonometric calculations and other nonlinear operations. Some are powered by rechargeable nickel-cadmium batteries, others by throwaway batteries. All of the calculators produced in Acton since 1973 utilize light-emitting diode displays of either 8 or 10 digits; no calculators of the printing type have been made by Bowmar Instrument Corp. or by Bowmar/ALI, Inc.

The first calculators were mechanical machines, developed in the latter part of the 19th century. In the early part of the 20th century, electro-mechanical calculators were developed, and these machines were used almost exclusively until the middle of the century. Electronic calculators, introduced in the latter 1960's, have now largely replaced the electro-mechanical models. The first electronic calculators used some integrated circuits and other discrete solid-state components that had been developed in connection with U.S. military, computer, and aerospace programs during the late

1950's and early 1960's. Because of the number of wiring connections involved, the assembly required a large amount of labor. Accordingly, U.S. producers, with their higher wage rates, could not compete effectively with Japanese calculator producers, even though the Japanese bought a substantial share of their basic calculator components from U.S. manufacturers. Japanese manufacturers, although still using some U.S. components, remained in the forefront in the development and manufacture of calculators until 1972, when U.S. producers, taking advantage of recent U.S. technological advances in integrated circuits that greatly reduced assembly time, became strongly competitive in the U.S. market for electronic calculators. The development of large-scale integrated circuit chips (LSI) has reduced the average labor time required to assemble a hand-held calculator of the type produced at the Acton plant from many hours to less than 1 hour. One LSI chip, with from 20 to 40 external connections, is the equivalent of several thousand transistors. Technological developments and increases in the scale of production have resulted in a rapid decline in costs and (as shown henceforth) in prices of calculators in the last few years.

U.S. Tariff Treatment

Electric calculating machines were dutiable under paragraph 353 of the Tariff Act of 1930 at 35 percent ad valorem and nonelectric machines were dutiable under paragraph 372 at 27.5 percent. By the late 1950's, both rates had been reduced to 10.5 percent ad valorem as a result of trade-agreement concessions. Since August 31,

1963, electronic and electro-mechanical calculators have been classified under item 676.20, which covers calculating machines specially constructed for multiplying and dividing. As the result of U.S. concessions granted in the Kennedy Round of tariff negotiations under the General Agreement on Tariffs and Trade (GATT), the rate applicable to item 676.20 was reduced in stages from 10.5 percent in 1967 to 5 percent in 1972.

The various rates of duty applicable to electronic and electromechanical calculators under the Tariff Act of 1930, as modified by trade-agreement concessions, are given in table 1 of the appendix.

U.S. Producers

Since 1970, a number of U.S. firms have commenced production of electronic calculators, and other firms have discontinued such production. Some of the "old line" producers, * * *, have ceased manufacture of these calculators in the United States and are importing their requirements exclusively. Other newer companies, such as * * *, have ceased electronic calculator production or gone out of business, or they have been acquired by other manufacturers.

At the present time, the great bulk of U.S. production of electronic calculators is accounted for by four firms; * * *. A dozen or more smaller producers account for the remainder. * * *.

* * *. The quantity of hand-held electronic calculators presently produced is many times that of desk-top calculators.

U.S. Consumption and Trade

U.S. consumption of electronic calculators increased rapidly from 299,000 units, valued at \$93 million, in 1970 to nearly 7 million units, valued at \$345 million, in 1973 (table 2). In January-August 1974, it was nearly 8 million calculators, valued at \$301 million. During this same period (1970-74), the average unit value of electronic calculators consumed in the United States decreased from \$312 to \$38.

U.S. producers' shipments of electronic calculators increased from 85,000 units, valued at \$46 million, in 1970 to more than 3 million units, valued at \$217 million in 1973. In January-August 1974, shipments were more than 4 million units, valued at \$203 million. The average unit value declined rapidly from \$541 in 1970 to \$50 in January-August 1974. In the fall of 1974, 6-digit, 4-function models made by several producers were being sold at retail prices of \$15 to \$20.

Exports of all calculators have increased from 33,000 units, valued at \$17 million, in 1970 to 108,000 units, valued at \$65 million, in 1973. During January-August 1974, exports amounted to 326,000 units valued at \$57 million. The average unit value ranged

from a high of \$615 in 1971 to a low of \$175 in January-August 1974. The unit values indicate that U.S. exports are primarily sophisticated scientific and engineering types.

U.S. Imports

Imports of all calculators increased rapidly from 392,000 units in 1967 to 1.8 million units in 1972 (when Bowmar commenced production) and to 5.0 million units in 1973 (table 3). The increase took place in the kind of calculators here under investigation, those with solid-state circuitry. Imports of these increased from 247,000 units in 1970 to 3.6 million in 1973 and 4.1 million in January-August 1974 (table 4). 1/ The increase in quantity accompanied a decline in average unit value from \$262 in 1970 to \$54 in 1973 and \$38 in January-August 1974. The decline still continues. On one of its simplest pocket calculators, the principal importer from Japan reduced the announced retail price from \$39.95 to \$29.95 in August 1974, and further reduced it to \$19.95 in October. The share of imports in U.S. consumption has declined steadily from about four-fifths in 1970-71 to about one-half in January-August 1974 (table 2).

Imports of calculators with solid-state circuitry were nearly all from Japan until 1973 when 600,000 units, 17 percent of the total, came from Mexico. The imports from Mexico increased to 1 million units, or 25 percent of the total, in January-August 1974.

^{1/} The increase is apparently understated, since most of the imports classified as "other" in 1974 appear upon investigation to be calculators with solid-state circuitry.

They consisted almost entirely of articles containing U.S. components, entered under TSUS item 807.00 (table 4). The imports from Mexico increased rapidly from 39,000 units a month in the beginning of 1974 to about 190,000 units a month in April and May, and ranged from 126,000 to 165,000 units a month from June to August (table 5).

* * * * * * * *

* * * * * * * * * *

* * *

Electronic calculators from Japan, as shown by an analysis of invoices in August 1974 (table 8) are brought in for the most part by six firms, the principal one of which (* * *) accounts for about * * * percent of the total. Three-fourths of the imports from Japan are valued, * * *, at \$30 or less each. Most of the rest are valued at \$41 or more each and consist of desk-top calculators, printing calculators, and specialized calculators. Few of the imports from Japan contain U.S. components, and in those that do, the value of the U.S. components is small. The saving in cost as the result of trade-agreement concessions is thus based on the full value of imports. * * *.

The lowest priced calculators, with an entered value of \$10 to \$19 each, have throwaway (instead of rechargeable) batteries, are sold without an adapter for use with alternating current, and will perform only the four basic functions (addition, subtraction, multiplication, and division). Some have a 6-digit instead of the usual 8-digit display. The calculators having an entered value of \$21 to \$30 each are sold by the importer after duty and other costs at \$30 to \$45 each, and are retailed, along with the bulk of the domestic

calculators, at \$40 to \$80. The majority of them have rechargeable batteries, and an adapter for use with alternating current, and may have a memory or calculate square roots and perform other functions. They are sold side by side with domestically produced calculators in office supply stores, department stores, discount stores, and radio-television establishments.

Bowmar Instrument Corp.

Bowmar Instrument Corp., the parent concern of Bowmar/ALI, Inc., was incorporated in the State of Indiana in September 1951. Corporate headquarters and one manufacturing operation are situated in Fort Wayne, Ind. During the 1960's and through 1973, the corporation steadily expanded its product lines through a series of mergers and acquisitions. These included Technology Instrument Corp., the synchro and resolver lines of the Norden Division of United Aircraft Corp., the Rayspan line of spectrum analyzers from Raytheon Co., a line of angle counter and message display products from the Precision Products Division of Litton Industries, Inc., Bowmar Instrument, Ltd. (of Canada), and Integrated Technology Corp.

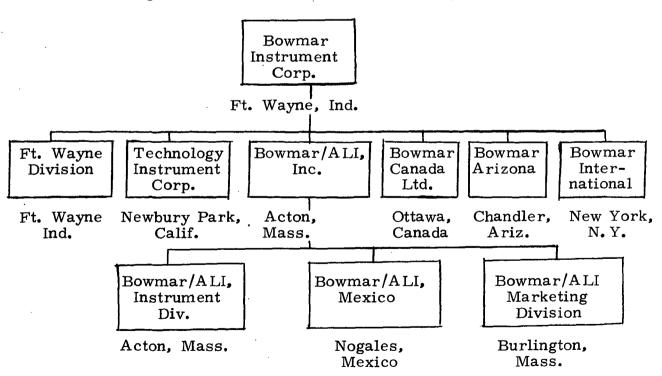
Corporate sales increased from \$12.5 million in 1970 to \$74.6 million in 1973 and net income (before taxes) increased from \$51,500 to \$16.3 million during the same period. However, there was a net loss of \$247,000 for the quarter ending June 30, 1974. 1/

^{1/} The loss accompanied a decline in sales, and it was followed in October by the announcement that Bowmar expected to experience a substantial loss for the fiscal year ended Sept. 30. Lower prices, the company explained, had forced a material write-down in inventory by Bowmar/ALI Inc.

Currently, the corporation has six operating components situated in Ft. Wayne, Ind.; Chandler, Ariz.; Newbury Park, Calif.;
Ottawa, Ontario, Canada; New York, N.Y.; and Acton, Mass. * * *.

* * * A simplified organizational chart of Bowmar Instrument Corp.
follows:

Organization of Bowmar Instrument Corp.

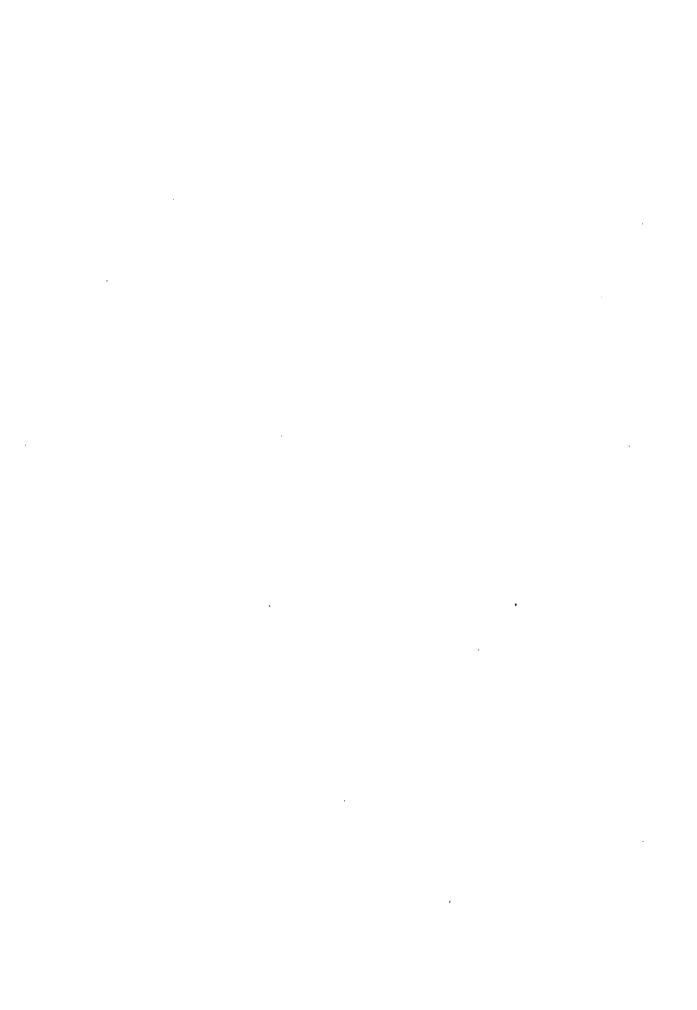


Bowmar/ALI, Inc.

Bowmar/ALI, Inc., was formed in 1965 when Acton Laboratories, Inc. was acquired by Bowmar Instrument Corp. At that time the laboratories produced communications test equipment primarily for the Department of Defense. In 1971 Bowmar began the production of electronic calculators to replace the waning production of defense-oriented articles. The company attained a dominant position in the manufacture of hand-held calculators in 1972.

* * * * * * *

* * * * * * *



STATISTICAL APPENDIX

Table 1.--Calculating machines, specially constructed for multiplying and dividing (pars. 353 (pt.) and 372 (pt.), Tariff Act of 1930, and TSUS item 676.20): U.S. rates of duty, 1930-72

(In percent ad valorem)

		(in percent au vaid	310m)				
Effective date		.	Rate of duty				
		Authority	Tariff par.: 353(4), 372(22)				
Aug. 5, Jan. 1, June 6, June 30, June 30, June 30, Aug. 31,	1935: 1948: 1951: 1956: 1958: 1963:	Tariff Act of 1930 Bilateral agreement with Sweden. GATT concessiondodo TSUS GATT concession	1/ 35 25 15 12.5 11.5 11 10.5	: - : - : - : - : -			
Jan. 1, Jan. 1,	1970: 1971:	(Kennedy Round)	: - : -	: 9 : 8 : 7 : 6 : 5			

^{1/} Rate of duty in tariff par. 372(22) was 27.5 percent ad valorem effective June 18, 1930.

Table 2.--Electronic calculators: U.S. shipments, imports for consumption, exports, and apparent consumption, 1970-73 and January-August 1974

(Quantity in thousands of units; value in thousands of dollars) Ratio Apparent U.S. ship-Ex-:(percent) o Period Imports consumpments 1/ ports 2/ imports to tion consumptio Quantity 85 : 247 : 33: 299 : 1971----: 133: 464: 32: 565: 8 1972----: 673 : 933: 71: 1,537: 6 1973----: 3,048: 3,589: 108: 6**,5**29 1974 (Jan.-Aug.)---: 4,098: 4,058: 326 : 7,830 : Value 1970----46,017 -64,691: 17,496: 93,212 1971----: 61,891: 84,199 : 19,681: 126,409: 6 1972----: 79,122 : 94,950: 22,775 151,297 : 1973----: 216,567 64,909 : 193,423 : 345,081 5 203,183 5 1974 (Jan.-Aug.)---: 154,854 : 57,119: 300,918: Unit value \$541 : \$530 : \$312: \$262: 1971----: 465: 181: 615 : 224: 118 : 102: 98: 1972----: 321 : 54: 1973----: 71 : 601: 53:

38:

175 :

38:

50

1974 (Jan.-Aug.)---:

Source: Compiled from official statistics of the U.S. Department of Commercexcept as noted.

^{1/} Data for 1970-71 derived from responses to questionnaires issued in connection with investigation No. TEA-W-140. Data for 1972-73 and January-August 1974 obtained from completed questionnaires received from U.S. produce in connection with investigation No. TEA-W-250. These data are believed to account for more than 85 percent of total U.S. shipments.

^{2/} Includes exports of electro-mechanical calculators which are not separately reported in official Government statistics.

^{3/} Not applicable.

Table 3.--All types of calculators: U.S. rates of duty and imports, 1947-73 and January-August 1974

Dominal	Data of Jutus	Imports				
Period	Rate of duty	Quantity	. Value			
	Percent ad valorem	1,000 units	: <u>1,000</u> : <u>dollars</u>			
1947	25 15 15 15 12.5 12.5 12.5 12.5 12.5 12.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5	1/ 1/ 1/ 1/ 1/ 1/ 1/ 1/ 1/ 1/	: 15 : 109 : 178 : 1,732 : 2,215 : 4,413 : 2,497 : 2,055 : 2,814 : 5,515 : 5,285 : 5,311 : 8,205 : 12,802 : 15,626 : 19,053 : 22,881 : 19,999 : 24,596 : 36,273 : 49,931 : 73,979 : 108,139 : 158,051 : 162,339 : 150,660			
1973: 1974 (JanAug.):	5 5	4,879 4,972	: 273,813 : 209,269 :			

^{1/} Not available.

Source: Compiled from official statistics of the U.S. Department of Commerce.

Note.--The data in this table represent the total imports reported in the official statistics under TSUSA items 676.2020, 676.2040, 676.2060, and 676.2080 for 1967-68 and under TSUSA items 676.2010, 676.2025, 676.2045, 676.2065, and 676.2085 for 1969-74.

 $[\]overline{2}$ / Effective June 6, 1951.

 $[\]overline{3}$ / Effective June 30, 1956.

 $[\]overline{4}$ / Effective June 30, 1957.

 $[\]overline{5}$ / Effective June 30, 1958.

Table 4.--Electronic calculators: U.S. imports for consumption, by source, 1969-73 and January-August 1974

Source	1969	1970	1971	1972	1973.	:JanAug. : 1974
		Qu	antity (1,	000 units)	
	•			;	:	•
Canada: :	:	:	:	_ :	:	:
Containing U.S. components:		- :	1:		:	
Wholly foreign:	- :	: <u>1</u> / :	<u>1</u> / :	12 :	: 172	: 21
Mexico: :					:	:
Containing U.S. components:		-	- :	18	•	•
Wholly foreign:	-	-	-	-	179	: 3
Japan: :					:	:
Containing U.S. components:		37		7.7		
Wholly foreign:					- ,	· · · · · · · · · · · · · · · · · · ·
All other:						
Total-~::	70	247	464	933	3,589	4,058 :
; ;		Va	lue (1,000	dollars)		
Camada	·.				:	•
Canada: ;				170	:	
Containing U.S. components:	-	- 1	128			
Wholly foreign: Mexico:	-	25	44	765	: 11,420	: 897
	•			662	; • 11 740	. 72 160
Containing U.S. components: Wholly foreign:		• -	· ·	662		-
Japan:				•	6,228	134
Containing U.S. components:	· .	9.344	24,323	10,766	: 9,923	: 6,383
Wholly foreign:	19 265				• 172 401	
All other:	7 250	1 005	1 203140	70,000	• 152,401	19 604
Total:	21,523		84,199			154,854
. :	21,323	:	. 64,133	94,930	· 193,423	: 134,034
·			Unit	value	:	
					:	
Canada:	:		. 0/ 4105			
Containing U.S. components:		: :	: <u>2</u> / \$197 :			•
Wholly foreign:	- :	: <u>1</u> /	: <u>1</u> / :	: 62	: 66	: 43
Mexico:			;		: 	
Containing U.S. components:	- :	- :	- :	37		
Wholly foreign:	- :	-	- :	:	: 35	: 45
Japan: :	:	:	;		:	:
Containing U.S. components:	- ;	\$252				٠.
Wholly foreign:						
All other:						
Total:	308	262	181	102	54	38
		•	•	•	•	•

Source: Compiled from official statistics of the U.S. Department of Commerce.

^{1/} Imports less than 500 units.
2/ Calculated from unrounded data.

17-7

Table 5.--Electronic calculators: U.S. imports from Mexico of articles containing U.S. components, 1973 and January-August 1974

		Value				Unit value (each)				
Period	Quantity	Total	Dutiable		Nondutiable	Total	Dutiable		: : d	Non- utiable
1973	426,613	\$11,339,367	\$6,782,761	:	\$4,556,606	\$26.58	:	\$15.90	:	\$10.68
1974	•	:		:	•	.*	:		:	
January	39,270	: 1,351,939	993,040	:	358,899 :	34.43	•	25.29	:	9.14
February	74,490	•	•		527,325 :			26.16		7.07
March	94,013	•			703,821 :		:	23.80		7.49
April	188,969				1,261,236 :			24.65	:	6.68
May	190,145	: 5,581,735 :	4,242,758	:	1,338,977 :	29.36	:	22.31	:	7.05
June	125,952	•		:	786,821 :	31.27	:	25.02	:	6.25
July	165,381	: 5,200,606	3,891,989	:	1,308,617 :	31.45	:	23.53	:	7.92
August	: 157,030	: 4,759,942	3,428,629	:	1,331,313 :	30.31	:	21.83	:	8.48
Total or	:	•		:			:		:	
average,	•	:		:			:		:	
JanAug.	:	•		:	:		:		:	
	:1,035,250	: 32,169,498	: 24,552,489	:	7,617,009 :	31.07	:	23.72	:	7.35

Source: Compiled from official statistics of the U.S. Department of Commerce.

* * * * * *

·		•	