# MACHINE METHODS OF ACCOUNTING

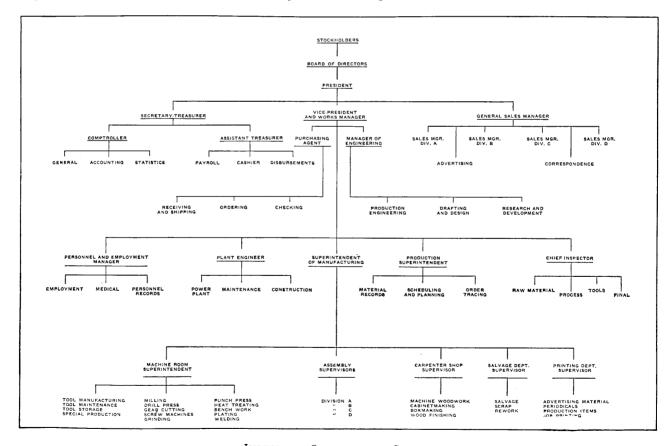
#### APPLICATION OF MACHINES TO ACCOUNTING FUNCTIONS

The nature of business is characteristically complex. The growth in volume of transactions and size of organizations through merger and expansion were accompanied by an increased number of managerial problems and responsibilities. This growth of business necessitated the division of management control among several executives so that proper attention might be accorded to each of the many operating problems which arose. Specialization made its appearance—a specialization based upon functions. Each executive was called upon to serve in a particular field, such as Selling, Manufacturing, Engineering, Purchasing, or the like.

Accounting record-keeping followed similar lines of division as a matter of course. The establishment of numerous auxiliary accounting records in addition to the summary en-

tries of general accounting proved to be necessary. These records were essential to furnish the summarized figure-facts that would satisfy the requirements of each functional executive for scientific or "planned" business management.

The nature of these various accounting subdivisions, together with a brief description of the International Electric Bookkeeping and Accounting Machine Method of obtaining the desired results is presented in this booklet. A full explanation of the details of the application of International machines to each specific problem is impossible because of limitations of space. The illustrations and text are included in this book only to indicate a part of the scope of the uses to which these machines have been adapted.



INDUSTRIAL ORGANIZATION CHART

An illustration of the divison of authority and responsibility in a typical manufacturing business.

# General Accounting

Events move swiftly today. It has become increasingly important that the general accounting books be closed promptly at the end of the month, and that the balance sheet and profit and loss statement be available as early as possible. Such practice makes possible exact knowledge of the accomplishments of the month just passed in time to use that knowledge in planning the current month. The gain of even a few days is important. Under the Electric Accounting Method the preparation of the earnings statement and the balance sheet has been speeded up from one to twenty days, as compared with previous methods.

The trend in accounting procedure has been to segregate detail accounts in subsidiary ledgers, leaving the general ledger essentially a series of controlling accounts. ance in each account. These summary cards can be combined with the detail charges and credits for the succeeding month, to obtain a new monthly balance. Subtraction is performed automatically by the Electric Bookkeeping and Accounting Machine.

Following the tabulation of account totals, the cards are replaced in the machine and listed to print the account, reference number, and amount punched in each card. This detail listing serves to support the totals printed in the previous tabulation by account. It is preserved as a permanent reference.

Any special analyses and subsidiary statements which may be desired are easily prepared. The proper cards are selected by the

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The use of punched tabulating cards for subsidiary detail is well established, as briefly described in the succeeding pages of this booklet. The automatically prepared summary or total cards resulting from these procedures become available for general ledger accounts and the automatic preparation of the balance sheet.

At the close of the month all general ledger cards are sorted by account number and tabulated to prepare the entries to the general ledger accounts. At the same time a summary card may be punched each month, showing the balsorting machine, and the supplementary reports are tabulated. The most important of these is the operating statement.

Whenever reference is made in these pages to summary cards or balance-forward cards, it should be understood that these are punched automatically during the process of tabulating the detail cards. The summary cards are therefore by-products of the tabulated report, obtained with practically no separate expenditure of time, and assured of being in agreement with the detail cards.

The detailed procedure followed in the preparation of financial statements and ledger records of any company may be modified to extend the basic principles of machine use to the preparation of consolidated financial reports for corporations which control many subsidiary operating companies. The accounting procedures which are involved in the summarizing of records for the preparation of such holding com-

pany financial statements may be simplified by the use of automatic accounting machines.

A further advantage of the application of Electric Bookkeeping and Accounting Machines is derived from the facility with which detailed lists may be printed to permit the preparation of subsidiary ledger records and transaction registers. These may be prepared according to any sequence that will simplify the subsequent auditing routines.

	TRIAL BALANCE			BALA	NCE SHEET	
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			GE	NERA	LEDGER DETAIL		
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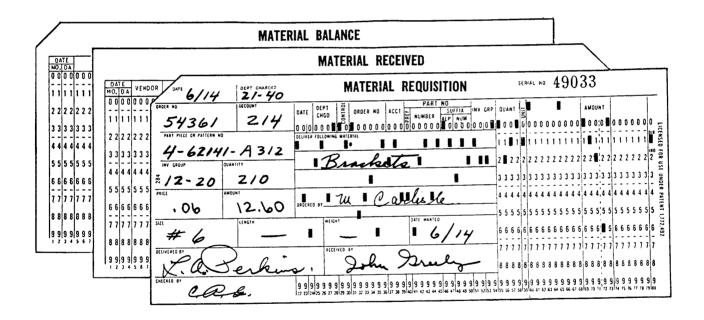
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## Material Accounting

Accounting for materials is acknowledged today to be no less important than the final accounting for the balance sheet and profit and loss statement. The prevalence of standard costs, including material, labor, and expense, is sufficient evidence that control of these principal elements of expenditure is essential to profitable operation. Adequate control requires that material records be kept in detail, showing the specific material used, the particular job or product charged, and the cost. If standard costs are used the variance should be available by item as an aid to future planning. In addition to these operating records, material accounting should provide accurate statements of the capital invested in materials. These requirements call for precision in the compiling of a voluminous amount of detail. The Electric Accounting Method accomplishes this very effectively.

Materials are issued by storekeepers only upon presentation of a formal requisition, properly filled out and authorized. These requisitions may be tabulating cards, showing the information in both written and punched form. The information includes unit price, extended amount, and job or account charged. Parts requisitions may contain labor and expense amounts also, thus furnishing complete order costs for processed parts. The written cards, signed by the storekeeper, are forwarded to the records department.

The written information is punched in the requisition cards. No computation of extensions is required since these can be both computed and punched automatically. Daily or periodically, the requisition cards are tabulated with the inventory and receipts cards to obtain a re-



A tabulating card is punched for each item of material in stores—raw materials, semifinished parts, and supplies. The cards which show a complete description of the item, its cost, and the quantity in stock, are placed in an inventory file. Other tabulating cards are punched for subsequent receipts of material, showing item identification, quantity, and amount. These too are placed in the inventory file by item number.

port of the stock position. All deductions and additions are computed automatically by the machine and new balances are printed. Summary cards, punched during the tabulation, represent the new balances of each item in stock, and these constitute the materials inventory file for the opening of the ensuing period. This file supplants the materials ledger—usually posted manually—since the card file is itself a complete record of the status of materials.

After the preparation of new balance cards, the direct materials requisition cards are available for sorting and tabulating for the work-in-process accounts.

In many organizations, indirect material is budgeted and actual amounts are measured against budgeted amounts periodically, sometimes even daily.

The indirect materials requisition cards are

sorted by department and account and tabulated with budget master cards to prepare the budget report, showing actual and budgeted amounts, and the variances from budget. Summary cards, produced during this tabulation, are used to make journal entries for expense materials. The detail cards are then released to prepare various distribution analyses, and are finally filed for future use in preparing statistical reports.

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# Payroll and Labor Accounting

Accurate production costs are essential for proper control of manufacturing. Payroll and labor distribution records must, therefore, meet the requirements of cost accounting as well as those of general accounting. The allocation of labor costs to the particular cost unit—order, part and operation, process—involves more detailed information than is required for general accounting. The two records must agree. If standard costs are used, the variance is often computed for each unit as well as carried in total for the general ledger. The Electric Accounting Method fulfills these requirements with speed, accuracy, and economy, and accommodates itself readily to any of the accepted cost accounting systems.

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matically under the Electric Accounting Method.

If the time cards are job tickets, these are listed daily, controlling on employee number, to prepare a labor summary. Simultaneously, a summary card is punched for each employee, showing total hours and amount. These are used to tabulate the payroll. The direct job tickets are placed in the work-in-process file by cost unit; the indirect tickets are filed by account number.

If the time cards are daily time reports, these contain the total hours and amount in punched form. One distribution card is punched for every job on the time report, showing complete

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DATE	CLOCK 2/	-423	EMPLOYEE NAME	Henn	, a. Q					010 010
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The employee's time card is usually a dual tabulating card—that is, both written and punched. This card may be either a job ticket, covering a single job; or a daily time report, recording all jobs worked upon during the day. It shows the date, identification of the job and the employee, starting and stopping time, rate, elapsed time, and amount earned.

After being filled out by the employee, the time card contains in written form the identification information, starting and stopping clock registrations, and pieces produced. At the end of the day the elapsed time is computed from the clock registrations and checked with that shown on the attendance record. The cards are rated, extended, and punched. The computing and punching of extensions are performed auto-

data for each. The time report cards are used to tabulate the payroll; the direct distribution cards are placed in the work-in-process file, and the indirect cards in the expense labor distribution file.

Cards are punched for each payroll deduction—such as insurance, savings, purchases, advances—and are filed to be included in the payroll tabulations. A permanent file of master cards is also maintained, which show employee's name, department, and clock number. At the end of each payroll period, the master, payroll, and deductions cards are machinesorted together by department and employee number, and tabulated on the payroll sheet (shown on the following page). Deductions are made automatically, and names as well as numbers may be printed.

During the printing of the payroll, summary cards may be punched automatically showing the earnings for each employee; these cards may also serve as the payroll checks themselves. The summary cards may be tabulated for current wage statistics and, at the end of the year, for income tax reports. The check application is described more fully on a later page.

At the end of the accounting period, the cards which have accumulated in the distribution file are tabulated to obtain the distribution of direct and indirect labor costs from which journals are prepared charging and crediting the

particular direct and indirect labor accounts affected.

If an order cost system is in effect, orders are closed and costed immediately upon their completion. Direct labor cards are tabulated (with materials cards) to secure the direct cost. Burden rates are then applied to obtain total costs.

Supplementary reports also, such as payroll analyses, efficiency reports, wage incentive reports, and wage studies of various types, may be prepared from the payroll and distribution cards.

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## Accounts Payable

The nature of the particular accounts-payable system of an organization exercises important effects, both internal and external. It should provide prompt payment of creditors, the securing of all profitable discounts, and an accurate statement of the total liabilities of the business. Expense distribution, compiled from the same sources, must be completed early for the monthly closing. These records involve a large amount of detail with a peak load at the end of the month if the method is one of individual posting and balancing. Under the Electric Accounting Method no posting is required, with the exception of transcribing the source data into punched-hole form. Balances are obtained automatically by the action of the machine. Month-end peak loads are eliminated.

separate sheet for each vendor. Credit amounts, punched in credit cards, are deducted automatically by the machine, and the net total is printed on the remittance statement. A check is drawn for the net amount and mailed with the remittance statement to the creditor.

The remittance statement may be a separate form distinct from the check; or it may be combined with the check, separable from it by a line of perforations. The check itself may be a tabulating card. The advantages of such a check are described on a later page.

At the time of punching an accounts-payable card from each invoice, a second type of card is punched, one card for each distribution ac-

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A tabulating card is punched from each invoice. The cards are first listed by invoice number to prepare the invoice register. A tabulation is then made by due dates, the totals are posted to a control, and the cards are placed in an unpaid file by due date. A few days before each due date the cards for the day in question are removed and tabulated for a total which is checked to the control. The tabulated commitment statement is forwarded to the treasurer as advance notification of cash requirements on each due date.

The cards for invoices due are sorted by vendor, placed in the Electric Accounting Machine, and listed on remittance statements, a count appearing on the invoice. The two sets of cards are tabulated together for a balance. This automatic check, established at the outset, with the subsequent balancing of all reports to a control, eliminates manual checking and guarantees the agreement of account distribution with actual liabilities incurred during the month.

The distribution cards are filed until the end of the month when they are electrically sorted and tabulated by account number to prepare the account distribution statements.

Purchase distribution reports also may be tabulated, showing purchases analyzed by ac-

count numbers, commodities, and vendors. Any special or subsidiary reports are easily prepared by selecting and resorting the proper cards.

voices. Therefore, with a small increase in card punching, the balance of general ledger entries, originating outside of invoices, may also be recorded in punched card form, with the result that the general ledger itself, in addition to the preliminary records, is automatically prepared.

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#### Most general ledger charges consist of in-DISTRIBUTION BY ACCOUNTS July MONTH OF. 193\_ SUB ACCOUNT ACCOUNT TOTAL ACCOUNT DEBIT AMOUNT CREDIT AMOUNT DEBIT CREDIT 0 1 0 5 0 6 1 5 106 2527 1111 106 106 106 4800 20 00 795 5 22 10,7 107 107 2150 111 4585 2580 5015 GENERAL LEDGER ACCOUNT No. 261 NAME Maintenance

MONTH	ACCOUNT NUMBER	VOUCHER NUMBER	KIND	AMOUNT DEBIT	AMOUNT CREDIT	BALANCE
18	261	1201	3	562842		
12	261	1250	1	84162		
12	261	1254	1	50067		
12	261	1258	z		7 4 3 8	
12	261	1265	1	34727		

Į	INVOICE	REGIS	TER			
				ENT	RY DATEJE	muary 26
INVOICE NO.	VENDOR	VENDOR NO.	INVOICE DATE	GROSS	DISCOUNT	NET
1001	A J HENDERSON AND SONS	1261	1 15	17500	1750	15750
1002	MARSHALL AND SMITH CO SMITH THOMAS AND CO	1329	1 16 1 10	25700	2570	23130
1004	HARRY WORTH SONS	1712	1 11	1050	105	9 4 5
1005	HAHNE JACKSON AND KURZ CO U S MAN CO	1250	1 15	21950	2195	19755
1007	HERMAN AILES AND CO	1025	12 15	17600	850	16750
1	WHITMAN SMITH AND CO CHARLES T GOOD CO	1542	1 16 1 19	10000 5000	7 5 0 5 0 0	9250 4500
1010	JAMES GORDON AND DAVIS CO	1276	1 13	7500	750	6750

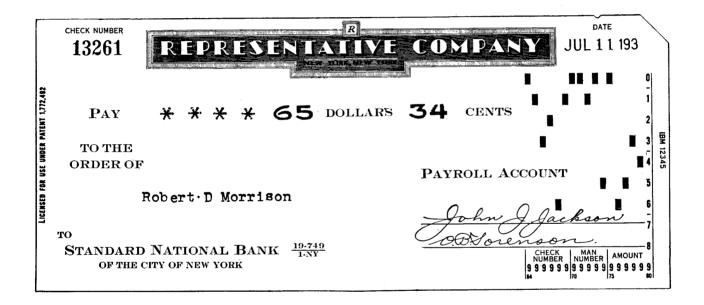
# Electric Accounting Checks

Electric accounting checks serve a double purpose—they are used both as checks and as tabulating cards. As checks they contain in written form all the elements legally necessary to establish them as authentic media of payment—preprinted name of bank and check number; the date, payee, amount, and authorizing signature. As tabulating cards they are used to prepare, by the Electric Accounting Method, the various records connected with check payment. The presence of the information in both written and punched form is an added protection to the check. The use of the cards to prepare accounting and statistical reports insures speed and accuracy in the preparation of these records.

The punched date and amount are printed automatically on the check, the amount preceded by asterisks for protection. Any explanatory data which are desired may also be printed on the check—for example, gross amount, deductions, discount.

The punched and printed checks are balanced to controls and machine-listed by check number to prepare the check register. They are then signed and mailed. When the canceled checks are returned by the bank they (or their duplicates) are tabulated for totals and balanced with the bank charges.

The cards are next used to obtain the bank



The preprinted check number is prepunched in the card if desired. If the source records from which the check is prepared are tabulated records, the check is punched automatically during the process of tabulating. In this way it becomes a by-product, secured at a minimum cost in time and money.

A single check card may serve all purposes—for payment and for the preparation of accounting and statistical records. A duplicate check may be used, in which case the duplicate is either punched simultaneously with the original or prepared automatically from it. The duplicate is used to prepare accounting and statistical records, and the original becomes the medium of payment.

reconciliation. If the single-check method is used the checks are listed by check number, with an automatic indication of missing numbers. This list is used to check off the returned checks on the original check register. The unchecked items represent the outstanding checks.

If the duplicate-check method is used the returned checks are combined with all the duplicates in the file, sorted to check number and listed. The actuation of the Electric Accounting Machine causes the amounts from the original and duplicate cards to be printed on a single line, in offset columns, with a total for each column. The difference between these totals

is the amount of checks outstanding. The identity of the individual outstanding checks is apparent at a glance, from the absence of an amount in the column containing the amounts of original checks.

The duplicate check cards (or the originals, under the single-check method) are finally tabulated to prepare any desired analyses of dis-

bursements—for example, by account, payee, class of payee, bank.

Electric accounting checks are particularly advantageous in connection with accounts-payable, payroll, and dividend-disbursement systems, due to the number of allied records which can be prepared from them. Their use is not confined to these records, however, but is effective for any straight check procedure.

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Warwick, H. T.	1302	1302	2486		2 2 0	2	266	2266	1302	s	673
Reeves, P.	1303	1303	2630		100	s	5 3 0	2530	1303	2	673
Sanderson, E.	1304	1304	2245		5 0		195	2195	1304	2	673
Smith, W.	1305	1305	2350		140	2	210	2210	1305		6735
			BAINI	· RE	CONCILIA	TION	DATE				193
CHECK	No.		DATE		טם	PLICATES			ORIGINA	LS	
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#### Finished Stock Control

The chief problem in securing an effectual control of finished stock is that of coordinating the contributing data. These include continuous records of all activities which affect the status of finished stock, either directly or indirectly. All these facts should be assembled into a single report, in detail by stock number or item classification. The report should be available as frequently as is useful to the management, and when completed should be up-to-date. These requirements have been difficult to meet, which accounts for the fact that scientific control of finished stock has rarely been achieved to its fullest extent. Recent developments in the Elec-

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placed in the stock file by item identification number.

In addition to the individual transaction cards, the stock file contains balance cards showing the balance forward in each of the "status" fields.

The cards in the current file are tabulated at predetermined intervals to prepare the "position" report, so called because it shows the complete position regarding finished stock, both actual and developing.

The alignment of the punching of quantities causes all transaction cards to be registered

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tric Accounting Method make such control entirely practicable.

A tabulating card is punched for each single transaction originating from every source which affects the stock position—namely, customers' orders, production or purchase orders, production finished or purchases received, shipments, and all types of adjustments, such as transfers, canceled orders, waste, shrinkage, customers' returns. The card form is designed to contain complete identification of the item and the transaction, and also separate quantity fields for stock on hand, unfilled orders, due from factory or vendor, and sales. Each transaction is recorded in the proper quantity field, the other fields remaining unpunched. The cards are proved and balanced to controls daily, and

only in those counters of the machine whose quantities they properly affect. Deductions are performed automatically by the machine, and a net total is printed for each item. During the process of tabulation, a summary card is punched for each item, showing the new net balances. If desired, sales to date may be accumulated in the same manner and printed in a separate field on the report.

The frequency of reports is governed entirely by the requirements of the particular company. The method accommodates itself equally well to a daily, weekly, or monthly schedule.

The position report may include only active items, and may be prepared daily. Since normally only a portion of the entire line moves

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daily, the report is brief and yet brings to the attention of the executive all items which potentially require action. Such daily reports may be supplemented quarterly by a tabulation showing the entire line. Tabulations also may be made of the inactive items.

With each punching of balance cards, the detail cards are released from the current file. From them numerous valuable subsidiary reports may be prepared in connection with production costs, sales analysis, accounts receivable, branch inventories, and special studies.

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		D						ND SHIPMEN		
									DATEJune	30
	GRADE			ORDERS				PF	ESENT POSITION	
Туре	Mdse.	Tread	CLASS SIZE	RECEIVED	PRODUCTIO	N	SHIPMENTS	ORDERS	sto	CK
1	1101	01	30350	2500		800	3500	900	0	5300
1	1104	01	32400	3000			2000	1150	0	4000
1	1106	01	30300			125	600	300	0	4525
+	CATALOG			SALES			FILLED	STOCK ON HAND	DUE FRO	
L	NO	-	YEAR TO DATE		MONTH TO DATE	OI	RDERS		FACTOR	
	93	1	4950			l		21 85 5		
1	103	į	1750		1500			4160	Ì	20
ł	104	ł	56600	ļ	6250	1	1880	210106		ŀ
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- 1						STOCK F	ECORDS			
	İ							C	ATE. June 30	193
	4			*		RECEIPTS	DISBURSEMENTS	BALANCE ON HAND	PRODUCTION OR PURCHASE ORDER	ASSIGNMENTS
L	CLASS STO		c	OM MODITY						
L				<del></del>	EWS	161299	66900	99300	200000	5 2
L	CLASS NO	9 N	o 7 woo	D SCRI			66900	99300 32000	200000	5 2
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#### Physical Inventory

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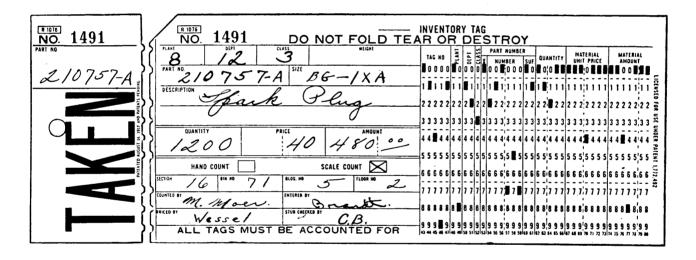
The chief purpose of a physical inventory is to evaluate stock on hand in order to adjust this asset in the general ledger and in the detail stock records. A second purpose, scarcely less important, is to analyze stock into various significant classifications. The profitable disposition of present stock and the planning of future activity are greatly simplified by the use of such analyses. The usual results are a reduced inventory investment and an increased stock turnover. By the Electric Accounting Method the inventory-taking is accomplished in a minimum length of time—an important point, since most organizations find it necessary to suspend production operations during this period. The accounting information is available shortly after the inventory has been taken often the following day. Various statistical reports, which under a manual method would require so much time as to be prohibitive, are completed in a few days.

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The cards are issued to the inventory-takers by serial number, and each one must be accounted for when the listing is completed and the cards have been turned in to the accounting department.

The quantity of each item in stock is counted and written on the proper card, each count usually being checked by a second counter. The cards are finally detached from their stubs and the stub is affixed to the article or bin as a visual indication that the item has been inventoried. The serial number on the stub serves to identify the latter with its tabulating card in the event that a re-count of particular items is desired.

The tabulating cards are sorted by serial number and machine-listed to detect any missing cards. After all cards have been accounted for it remains only for the quantity, or quantity and extension, to be punched.



A dual stub tabulating card is used to record the inventory count, one card for each item of stock. The cards are serially numbered on the card itself and on the detachable stub. The serial number is prepunched at the card factory. The card form provides for information, in both written and punched form, covering a description of the item in all detail, its quantity, unit price, and total price.

The identifying information and unit price are written and punched previous to the inventory-taking in order to reduce the time required later for listing the inventory and punching the cards.

By means of the punched card procedure known as "progressive digiting" the extension of individual items may be omitted altogether if only total values by departments are required. From the punched quantity and unit price the Electric Accounting Machine accumulates the total values. Through the use of the digiting method total values for labor and material, cost and market, or other combinations of costing and pricing may be secured simultaneously.

If extensions are required for each card, these are computed and punched automatically from the quantity and unit price already punched in the cards.

PLANT Pittsburgh

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The cards are tabulated to obtain the required accounting totals, either by departments or in total. Following this a listing is made by stock number, which serves as a support for the accounting totals and as a cross reference with the previous listing by tag number.

Any special inventory analyses which are desired may be provided for by including the proper punching when the cards are originally prepared, and are easily obtained by electric sorting and tabulating after the accounting work has been completed.

DATE December

\_\_193\_\_\_

PLANT	INVENTORY REPORT  (EXTENDED CARDS)  Pittsburgh		DATE Dec.	31193
PART No.	DESCRIPTION	TINU	QUANTITY	AMOUNT
40304	CABLE IGN WIRE BRAIDED LARGE	FT	110	3 3 0 0
40305	CABLE IGN WIRE BRAIDED SMALL	FT	173	3 4 6 0
40306	STANDARD IGNITIÓN WIRE	FT	200	1600
40317	WIRE MANIFOLD CLAMP TUBE	EA	60	4800
40318	SPARK PLUG GROUND ASSEMBLY	EA	31	4650

40		T New Yo	ork			NTORY DET	3)	eptember 193
40	LOCA.	TAG NUMBER	MA. TERIAL CLASS	PART NUMBER	LAST OPERATION	QUANTITY	UNIT COST	ÁMOUNT
40		2047	22	12500	i36	450	1 125	50 <i>6</i> 25
<u> </u>	16	2139	22	12501	210	200	750	15000
	16	1 648	22	12502	125	190	1050	19950
	16	2102	22	12503	193	350	1050	36 7 5 0
	16	1862	22	12504	168	210	975	204,75

# INVENTORY DETAIL

(DIGITING CARDS)

OR OR LOCATION	TAG NO.	PART NO.	LAST OPER.	QUANTITY	UNIT LABOR COST	UNIT MATERIAL COST
4444444444444444444 000000000000000000	890123457891267902 445555555555566666677 55555555555555555	02670356706792357988888999999000011111111111111111111111	28999111455822244560 000011111112222222222222	1 5000050000000000000000000000000000000	145360073665 182760973665 127429462019525184 411264330831388 184247	0000453054294451857 6322302720228664136 3 12 31

## Sales Accounting

Selling and the cost of selling are matters of serious concern to present-day business. Both of these problems are subject to scientific control similar to that which has been so successfully applied to production. The first essential for such control is the possession of detailed information covering all the facts which pertain to sales activity. The specific factors to be included among the sales analyses for a particular company depend upon the type of business. In general these factors include the product itself in all pertinent classifications, the extent and character of demand, and the channels through which the product is brought to its market.

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anced to a control and filed until required, at which time they are sorted and tabulated to prepare the various analyses desired. Since all reports are run from a single set of cards, their totals are certain to be in agreement, and accuracy is assured. Accumulative reports are prepared with no extra effort by the use of the periodic summary cards, automatically punched.

The sales analysis card may be used also to provide essential information for the general ledger. Accounts such as sales, returns, cost of goods sold, and other real and nominal accounts

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Formerly the securing of such sales analyses was not practical because the amounts of time and money required were prohibitive. With Electric Bookkeeping and Accounting Machines, however, this is one of the most appropriate and profitable applications since the value of the machines increases with the amount of detail to be classified and compiled.

A tabulating card is punched for each item or classification on the customer's invoice, showing, for example, customer number, salesman, district or territory, trade class, complete item identification, and amount. The cards are bal-

may be posted from or checked with the sales analysis reports. Salesmen's commission statements, royalty statements, and tax statements also may be prepared from the sales analysis cards.

The repeated use of a single card for many purposes is one of the conspicuous advantages exclusive to the punched-hole method. All individual postings are eliminated. The tabulating card once punched and proved is permanent and unalterable. Consequently, the danger of the transposition, omission, or duplication of figures is entirely removed.

22-17

The variety of analyses which can be prepared for the use of management is practically unlimited. The answers may be readily found for such basic questions as—"What was sold?", "Who sold it?", "Where was it sold?", "Who bought it?", "What was the profit?" Other valuable facts concerning distribution such as the relative profitableness of products, salesmen, branches, channels of distribution, classes of industry, and advertising media may be intermittently prepared. These valuable analyses

are compiled by the International Electric Bookkeeping and Accounting Machine Method with practically no additional cost and no disruption of the regular accounting routine.

A few representative reports appear below which show some of the typical analyses of sales which may be prepared. Many others may be designed to incorporate the essential figurefacts required for each specialized type of busi-

						Мо	NTH OF_	Jul	Ly	193		
BRANCH	SALES	MAN		THIS MONT	Н			YEAR TO	DATE			
			SALES	•	EXPENSE		SALES		EXP	ENSE		
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21				C	COSTO	FSA	LES					
21							Mon	TH OF	July		193	
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#### Accounts Receivable

Accounts Receivable is one of the most important accounts to be found in the books of any industrial or commercial organization. It is upon accounts receivable that an organization principally depends for the income with which to meet maturing obligations and to continue operations. The Electric Accounting Method provides the necessary means for performing economically the detail work involved in the accounts-receivable procedure. It reduces errors, insures the prompt rendering of statements and places no limitations upon the selection of the particular type of statement which is best adapted to the needs of the individual business.

The debit cards are balanced to a control and placed in the current accounts-receivable file by account number, behind their corresponding index tab cards.

There are several methods of applying payments. The choice of a particular method necessarily depends upon the requirements of the individual business.

From the remittance slip, the cash received is recorded in a tabulating card, either in the corresponding debit card itself or in a separate credit card. The paid debit cards may be re-

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A master duplicating card and an index tab card are first set up for each account, showing customer number, name, and address, and any credit information desired, in both written and punched form.

A debit card is punched from each invoice. The common information from those invoices which apply to a single customer is duplicated (that is, punched automatically) in the debit cards by means of the master duplicating card. The rapidity of duplication adds considerably to the speed of punching.

The accounts-receivable debit card may be a summary card punched automatically from a tabulation of the sales-analysis detail cards.

moved daily from the current file. In this event, the accounts-receivable file contains only the open items, and continues to contain such items until they are cancelled by payment.

At the end of the month the open file is first tabulated by account number for the trial balance and then listed upon the customers' statements. The original statements are mailed to customers and the duplicates retained for reference.

The open file may be started anew each month by punching a balance-forward card for each month's balance. Current debit and credit cards are then punched and placed in the open file. No cards are withdrawn during the month. Each month's statement is complete in itself, showing the old balance, every debit and credit item of the current month, and a new balance.

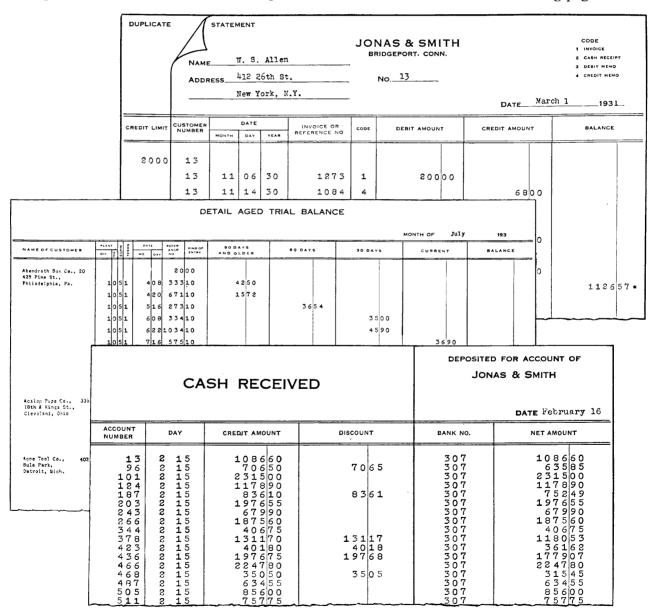
Under some conditions the tabulating card may serve as the invoice itself. In this case the card contains its information in both written and punched form. After the cards have been used to tabulate the statements, those applying to each statement are attached thereto, as a support, and sent to the customer.

Following the mailing of statements, an aged trial balance is tabulated, showing the amounts owing for the current month and for periods over 30, 60, and 90 days.

The cards, both debit and credit, for the month just ended are next tabulated to prepare a history of customer's account, a separate sheet for each customer.

If a separate credit card is employed, the cash book and deposit slip may also be tabulated records, prepared simultaneously by means of an overlapping flyleaf form and carbon paper. This provides an automatic balance of accounts receivable with the general accounting records.

The accounts-receivable records may be combined with those for billing. The billing procedure is described on a following page.



## **Budgetary Control**

The extensive adoption of budgetary control is one of the most important recent developments in management. Budgeting is a subject of keen interest among business leaders everywhere, either because they are operating under a budget or because they feel the need of doing

The successful budget requires that, first, estimated income and costs, and second, variance of actual from standard be broken down by item or classification, and that this variance be known promptly at the close of the period. These requirements formerly constituted the chief impediments in the operation of the budget, from the viewpoints both of clerical cost and of time. With the use of International Electric Bookkeeping and Accounting Machines, however, budgeting becomes a thoroughly practicable undertaking, and a valuable means of current control and of future planning.

tail cards and a tabulation is prepared showing actual amount, budget amount, and the amount over or under the budget. No manual computation is necessary, the subtraction for variances being accomplished automatically.

Accumulated amounts for the period to date—actual budget and variance—are also computed automatically. The total amounts for the first month of the period are punched in new cards by the Automatic Summary Punch at the time the budget report is tabulated. These total cards are included for tabulation with the succeeding month's budget and detail cards. In this way the accumulated amounts for the period to date are automatically carried forward each month.

In addition to preparing the periodic budget reports, the detail cards are used to make a

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Detail cards are punched daily for each item of sales, material, labor, and expense. These are first used in their respective current accounting procedures. After they have served this purpose they are sorted and tabulated by budget classification.

Budget cards are punched monthly, showing department, item or classification, and the budget amount. These are combined with the de-

variety of analyses upon which the forecasts for a new budget period are based. Such information as sales by territory, salesman, trade class, customer, and other data suitable for making exhaustive sales and market analyses is available from the sales detail cards. Similarly the production, material, labor, and expense cards contain any information which is pertinent to a thorough analysis of these records.

\*

With the last day's detail cards, all punching for the month is complete, and the budget report is ready to be tabulated, the total or balance-forward cards and the budget cards being already available. The printed reports as they issue from the machine are complete in detail, accurate against controls, and ready for the attention of executives while their contents are still news of the current status and when effective remedial measures may be taken.

				MONTH O	F <u>May</u> 19
DEPT.		SALES BUDGET		SALES EXPENSE	
DEFT.	ACTUAL SALES		ACTUAL AMOUNT	OVER BUDGET	UNDER BUDGET
1	9400750	9000000	912347	62347	
s	6643110	7000000	721041		789
3	8472140	8400000	876431	126431	
4	20.43200	2500000	328410		758
5	932150	900000	97605		75
6	1094625	1500000	154312		120

			B		CURRE	NT MON	тн		YEAR	TO DATE	
		Account Number	3E 4 Z U I	Budget	Expense	% of Net Sales	Variance	Budget	Expense	% of Net Sales	Variance
RECT EXPENSE		704		563	414		149-	6756	13585		6829
Advertising	301	301	4	563	414		147-	0130	12202		5029
Commissions	303	303	4	30	796		766	360	1118		758
Management Salaries	305	305	4	450	450			5400	5 4 0 0		
Management Traveling	307	307	4	250	331		81	3000	4136		1136
Salesmen's Salaries	309	309	4	1800	1561		239-	21600	23853		2253
Salesmen's Traveling	311	311	4								
TOTAL DIRECT	812	312	4	3093	3552		459	37116	48092		10976
IDIRECT EXPENSE	313	313	4		1						

						MANUFAC	rurin	IG BUDGET RE	PORT				
										MONT	1 OF	March 193	
	DEPART	MENT	ACCOUNT	BUDGET		ACTUAL TO DA	TE	ACTUAL THIS PE	RIOD	VARIANCE TO E	ATE	TOTAL ACTUAL TO	DATE
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	4	01	12	110	00	95	00	3 5	00	15	00-		
	4	01	16	9 5	00	175	00	100	00	80	00		
	4	01	17	30	00	1.5	00	10	00	15	00-		
	4	01	24	10	00	2	00	2	00	8	00-		
	4	01	32	2 5	00	60	00	3 5	00	35	00		
	4	01	33			5	60	5	60	5	60		
	4	01	34	225	00	216	10	7 3	00	8	90-		
	4	01	35	8 0	00	7.5	00	25	5 0	5	00-		
	4	01	37	10	00	ξ.	00	3	00	2	00-		

# Billing

Billing is one function common to all business concerns no matter what their particular type of activity may be. It is one of the most frequent points of contact between buyer and seller. The billing procedure also has a direct bearing upon many of the internal operations of a business. It is apparent, therefore, that speed and accuracy are essential. Under the Electric Accounting Method many of the operations involved in billing can be performed in advance of the receipt of the order. This often leaves little more than the printing of the bill to be accomplished at the time of billing. The bill is produced automatically by the action of the machines. Neither manual nor key-posting is required. Billing totals are assured of being in agreement with the original records from which the cards were punched, and with any records subsequently produced from the same punched cards.

The detail cards and name and address cards are combined and listed by the Electric Accounting Machine to print a multiple-copy set of records, one set for each customer. These may be used as the internal order, the duplicates serving as packing slips and warehouse, office, and salesmen's records. In this case, when the order is ready for shipping the same cards are used to print a multiple-copy set of invoices, the duplicates serving as accountsreceivable, general office and statistical copies. In other cases, the original listing may be used both as the order and as the invoice. Under different conditions the detail cards may be punched from shipping memos after shipment has been made.

The invoices are checked to the warehouse or shipping records, and extensions are verified. After this operation the customer's invoices are placed in window envelopes and mailed.

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A file of customer code cards is maintained, which show in both printed and punched form the customer's name and address, and any credit data which are desired. From the customer's order the proper code card is withdrawn from the file and used to duplicate the common customer information in the detail cards.

A detail card is punched for each item on the order, containing a description of the item, the quantity, price, and extension.

If the product is a standard one, and the same quantities recur frequently on customers' orders, a reservoir file of prepunched cards may be used to supply the item information. These cards show a description of the item, quantity, price, and extension, and are filed by item number. The file always contains a number of cards for every quantity potentially appearing on customers' orders—or for smaller quantities which by addition can be used to compile such quantities. For example, the quantity "142"

might be represented by three cards, those for 100, 40 and 2 respectively. The prepunching is performed automatically.

As orders are received, prepunched cards for each item are removed from the reservoir file to make up the quantity specified. If prices change so frequently that the prepunching of price and extension is not practicable, the price is written on the order and punched in the card. From the punched quantity and price, the computation and punching of the extension are performed automatically.

If the product is received and issued in standard units, the reservoir file may become a stock

file containing a prepunched card for each unit in stock. Receipts are recorded by the insertion of additional cards in the file, disbursements by the removal of cards. The cards removed are used to print customers' invoices. Under this unit-control plan the prepunched file represents current stock at all times, and may be tabulated for periodic stock reports.

Under all the above methods the detail billing cards, or summary cards prepared from them, may be used currently in the accounts-receivable and inventory procedures. The same cards are finally available for preparing various statistical analyses pertaining to shipments.

ORD	LLING REC	E BI	FFIC	1 0			INVOICE	IN STORE	Α'n	C-F			
	INVOICE NO.	nd DAY	MONTH	STORE NO.	INVOICE NO.	MBER	STREET AND NUM	OCATION .	ORE L	sī	nd DAY	ONTH	TONE NO M
	2134	16	3	856	2134	i	ON LINE	SELECTI		1	16	3	856
2.00	2.88	24	1	118	2.88	12 <sub>1</sub>	AUQN j	CORN	ı	No 2	2 4	1,	1181
1.98	2.40	24	1	122	2.40	10	.CD	PEACH SL		No 1	24	1	122
.8.0	1.20	12	1	131	120	10	GL	CANUAS	İ		12	1	131
.78	.96	12	1	133	.9 6	.0 в	CHERRIES		OZ	8	12	1	133
2.40	3.60	24	1	137	3.60	15	AUQN	TOMATOES		3	24	1	137
.76	ا 6 و	12	1	141	.9 6	.08	APPLE	PINE	OZ	8	12	1	141
.96	1,20	12	1	143	120	.10	BERRIES	RASP	OZ	8	12	1	143
1.23	1.80	12	1	154	1.80	15	HEINZ	BEANS	MD		12	1	154
3,88	5.28	24	1	1 167	5.28	22	C STAND	BEAN STRI		No 2	2.4	٠,١	167

#### THE NATIONAL MANUFACTURING CO.

CUSTOMER'S ORDER No. & DATE 2105 4-21
REQUISITION No.

702 BROADWAY NEW YORK, N. Y.

REFER TO INVOICE No. 21156
INVOICE DATE 428
VENDOR'S NOS.

SOLD

CONTRACT No.

GEORGE L HENDERSON CO 50 FRONT ST TORONTO ONT SHIPPED TO AND DESTINATION DATE SHIPPED

CAR INITIALS AND NO. HOW SHIPPED AND ROUTE EXPIESS
TERMS: NET CASH 30 DAYS

QUANTITY	DESCRIPTION	PRICE	AMOUNT
40 100 20 50 50 30 50	NATIONAL NO 17 TIRE GAUGES REPLACEMENT HUB CAPS ALUMINUM PISTONS NO 58 EXCELLO ROLLER BEARINGS SPECIAL SPARK PLUGS PARKING HEAD LIGHTS STOP LIGHT ASSEMBLIES WINDSHIELD WIPERS	7350 20750 1000 1500 180	2880 3500 4000 375 5000 4500 10000 18000

\* \* \*

COLLECTION RECORD INTERNATIONAL PUBLIC SERVICE CORP. 270 BROADWAY, NEW YORK, N. Y.				INTERNATIONAL PUBLIC SERVICE CORP. 270 BROADWAY, NEW YORK, N. Y.							CASHIER'S COUPON INTERNATIONAL PUBLIC SERVICE CO 270 BROADWAT, NEW YORK, N. Y.			SERVICE CORP.		
DATE CHENT CONNECTED MAINE DEPOSIT	SERVICE TO	AMOUNT	DESC		PARTITURE	K.W.H. OR 100 CU PT. CONSUMED		71.000 7000	-,,	AMOUNT	MET	BESCRIPTION OF CHARGE	CUSTOMERS	DESC.	ANOUNT	MET
5 29	OCT 2	3.9 6		1098	1068	3.6	SEP	1 1 0CT	12	3.9 6	,3.5 6 3.5 2	GAS GS ARS	2 0,5	6S	3.9 6 3.5 2	3.5 6
5 29 3 5.00	OC1 5	1.9 2	EL	2458	2 4 4 2	2 4	SFP	1 î oct		1.9 2	1.6 8	ELEC H. S. TAX	1	EL	1.9.2	1.6 0
SHUTOFF NOTICES MOSE BALANCE	100	5.0 0	MD				7	901		5.0 0	5.0 0	N.D.SE	1	RD	5.0 0	5.0 ñ

125 - 050800

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TO: Wm. H. Campbell
314 East 64th Street
Apt 5-H New York City

REAL ESTATE MANAGEMENT CO.

70 BROADWAY

NEW YORK, N. Y.

#### REAL ESTATE MANAGEMENT CO.

70 BROADWAY

NEW YORK, N. Y.

#### CASHIER'S RECORD

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MONTH	DAY	ITEM	MO. DAY	ARREARS	CURRENT	TOTAL	HOUSE	SPACE ITEM	AMOUNT
5	01	RENT		12500			125	508001	12500
3	25	ELECT	427	874			125	508002	8 7 4
3	25	TAX	427	17			125	508003	17
3	27	GAS	430	180			125	508005	180
4	18	REPAIR		2850			125	508008	2850
6	01	RENT			12500		125	508001	12500
4	8 \$	ELECT	5 2 6		819		125	508002	8 1 9
4	8 8	TAX	5 2 6		16		125	508003	16
5	16	REPAIR			5 6 5		125	508008	5 6 5
4	30	GAS	5 2 8		100		125	508005	100
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