

R. W. CRARY & O. E. McMEANS.
TIME AND WAGE COMPUTER.
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981,066.

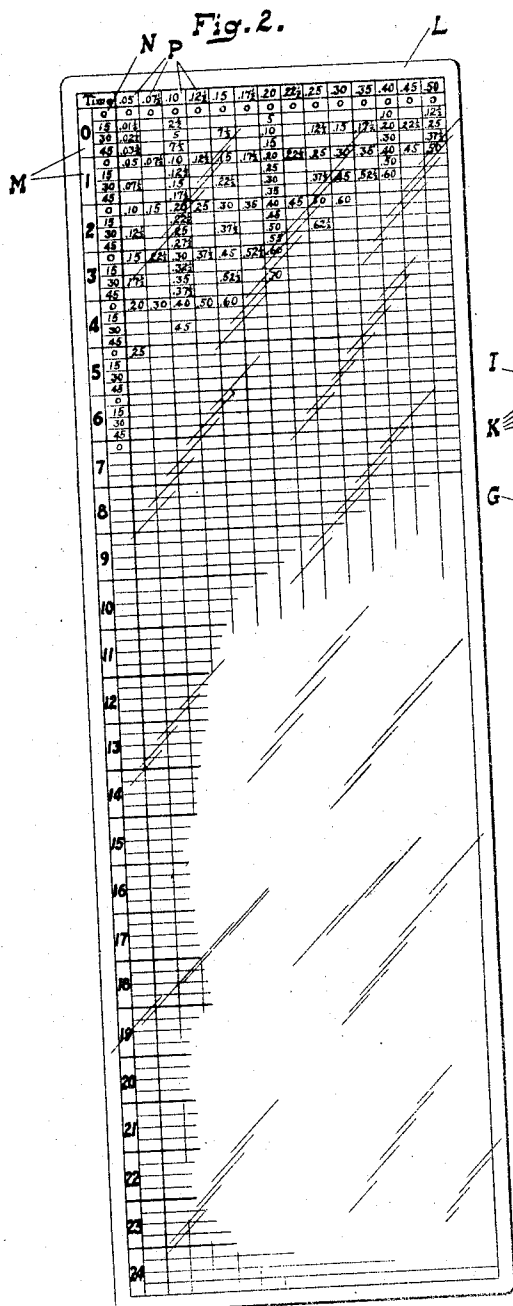


Fig. 1.

NAME _____		NO. _____	
A.M.		P.M.	
1	DATE _____	12	_____
2	TIME AM. _____	1	_____
3	TIME P.M. _____	2	_____
4	TOTAL _____	3	_____
5	☐ Straw Stack ☐ Vining ☐ Cleaning ☐ Hand Picking ☐ Blanch + Fill ☐ Cap + Tip ☐ Process ☐ Cool + Store ☐ Power ☐ Expense ☐ Labeling ☐ Cans ☐ Boxes	Rate per Hour.	12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 7

Witnesses
Walter Troemel.
Thomas W. McMeans

Inventors
Ralph W. Crary, and
Orange E. McMeans.
By Bradford Hood
Attorneys.

UNITED STATES PATENT OFFICE.

RALPH W. CRARY, OF STURGEON BAY, WISCONSIN, AND ORANGE E. McMEANS, OF INDIANAPOLIS, INDIANA.

TIME AND WAGE COMPUTER.

981,066.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that we, RALPH W. CRARY, a citizen of the United States, residing at Sturgeon Bay, in the county of Door and State of Wisconsin, and ORANGE E. McMEANS, a citizen of the United States, residing at Woodruff Place, Indianapolis, in the county of Marion and State of Indiana have invented certain new and useful Improvements in Time and Wage Computers, of which the following is a specification.

In the production of canned goods the work of a large number of laborers is required and these laborers are engaged in various shifts or groups throughout the entire twenty-four hours of each day during the packing season and the individual laborers are apt to be quite irregular in the time of employment. As a consequence the laborers are in most instances paid by the hour at various rates depending upon the character of labor and some means needs to be provided by which the actual time of employment and the character of employment may be readily indicated and thereafter computed and reduced into terms of either hours or wage.

The object of our invention is, therefore, to produce means by which the above stated results may be readily reached and to that end we have provided a peculiar time card to be given to each employee each twenty-four hours, and a computing or integrating scale by means of which each of the time cards may, when properly marked, be clearly reduced into terms of either hours or wage.

While the above recited means has been especially designed for use by canners and packers it is to be understood that with very slight changes not requiring invention, the means may be readily adapted for use in many other lines of employment.

The accompanying drawings illustrate our invention.

Figure 1 is a face view of the time card constructed and arranged in accordance with our invention and Fig. 2 a face view of a computing scale (preferably transparent) by means of which indications on a time card such as shown in Fig. 1, may be reduced to terms of hours (and fractions thereof) or wage.

Referring to Fig. 1 of the drawings, the time card shown therein may be of any desired size and shape and should be provided

with a space A to receive the name of the employee and a space B to receive the designating number of the employee. It is convenient and desirable also to have a space C in which the date may be placed and spaces D, E, and F in which may be written a total time of employment in the morning, afternoon and the whole day respectively. In a space G we arrange a list of designations of the different classes of employment and in a space H a list of rates per hour. We also provide two series of uniform spaces I beginning at 1 and ending at 1 passing through 12, so as to thus indicate the hours beginning at 1 a. m. and 2 p. m.; identical uniform spaces and a series of J, beginning at 12 and ending at 12 passing through 1, said figures thus designating the hours from 12 noon until 1 o'clock a. m. Arranged alongside of the spaces I and J are equal spaces K of any desired but equal extent so as to indicate equal sub-divisions of an hour. In the present case these sub-divisions are quarter hours, nothing less than 15 minutes being counted, and care should be exercised to see that the subdivisions K are uniform throughout.

In the present instance we show the card provided with two series of spaces I and J for the following reason. If a single series of twenty-four spaces I and a corresponding series of one hundred and eight spaces K were arranged in a straight line the card would be too long for convenient handling if the spaces K were of sufficient size to facilitate easy handling, and it is therefore advisable to divide the set or entire number of spaces into two series. In the particular industry for which this card was especially designed the usual lunch period extends from twelve to two o'clock, different employees taking their nooning at different times, and it was found convenient to get all of the time of any employee before lunch or after lunch into a single record. It is for this reason that the series of spaces I is arranged to take care of the time from midnight until two p. m. and the series of space J is arranged to take care of the time from twelve noon until one o'clock a. m., thus providing each series of spaces with the entire noon period.

For the purpose of reducing the record of a card to terms of hours or wages we provide the scale shown in Fig. 2. This scale

may be made of any suitable material but we prefer to make it of a strip L of transparent material preferably flexible such as celluloid. On this scale we provide a series of twenty-five spaces M having the same length as spaces I and J and alongside this series is a series of spaces N corresponding in extent to the series K. We then provide a plurality of series of columns of spaces P each representing a wage scale. The spaces in any column P correspond to the spaces in column N and each space will contain that figure which will represent the total wage for the indicated time at the indicated wage scale.

In use an employee is given one of the cards shown in Fig. 1 at time of beginning of work on any day and a punch or other designating mark will be made in that space K which will designate the actual time of beginning of work. When the employee stops for lunch another indication will be placed in the proper space K alongside of the column I and when the employee begins after lunch a proper designating mark will be placed in the proper space K alongside of column J and a similar mark made to indicate the time of quitting at the end of the day. A proper designating mark will also be made in column G to indicate the kind of employment and a mark in column H to indicate the wage scale. Each employee will turn in his or her card at the end of employment for the day (or night) and the auditor will then take the scale L and, by using the proper column P, and placing the "0" of the wage scale column at the mark indicating the time of beginning, will note the reading indicated by the mark of lunch quitting and will then transfer the scale at the noted point to the time of beginning after lunch and take the reading indicated by the time of ending of employment, thus quickly obtaining the total wage of that employee for the day. While these readings are being taken the auditor may also take readings in column M so as to determine the time of employment before luncheon and after luncheon and the total time of employment so as to make the proper entries in spaces D, E, and F.

By the use of the cards shown in Fig. 1 it

will be seen that practically a complete "production cost" record may be continuously produced for future reference, and by the use of the scale shown in Fig. 2 the auditor may quickly compute the employment time and the daily wage of each employee.

We claim as our invention:

1. The combination of a time card having thereon two series of uniform spaces indicating successive and equal periods of employment, the final end of the first series and the initial end of the second series indicating several adjacent and identical periods of employment, and an integrating scale carrying a single series of uniform spaces each having the same extent as the spaces of the time card and indicating successive equal cumulated periods of employment.
2. The combination of a time card having thereon two series of uniform spaces indicating successive and equal periods of employment, the final end of the first series and the initial end of the second series indicating several adjacent and identical periods of employment, and an integrating scale carrying a single series of uniform spaces each having the same extent as the spaces of the time card and indicating successive equal cumulated periods of employment, said integrating scale also carrying a plurality of columns of uniform spaces corresponding to the time card spaces and carrying cumulated-wage indications.
3. A time card carrying two series of uniform spaces each space indicating a minimum employment period, and the final end of one series and the initial end of the other series both indicating the same several adjacent minimum employment periods.

In witness whereof, we have hereunto set our hands and seals.

RALPH W. CRARY. [L.S.]
ORANGE E. McMEANS. [L.S.]

Witnesses to signature of Ralph W. Crary:

PHILIP R. CUNNINGHAM,
WM. BIRDSALL, Jr.

Witnesses to signature of Orange E. McMeans:

THOMAS W. McMEANS,
ROY DUBBS.