



VOL. XXXVI NO. 4 OF THE
**MONOTYPE
RECORDER**

WITH ARTICLES ON TYPOGRAPHIC
DESIGN

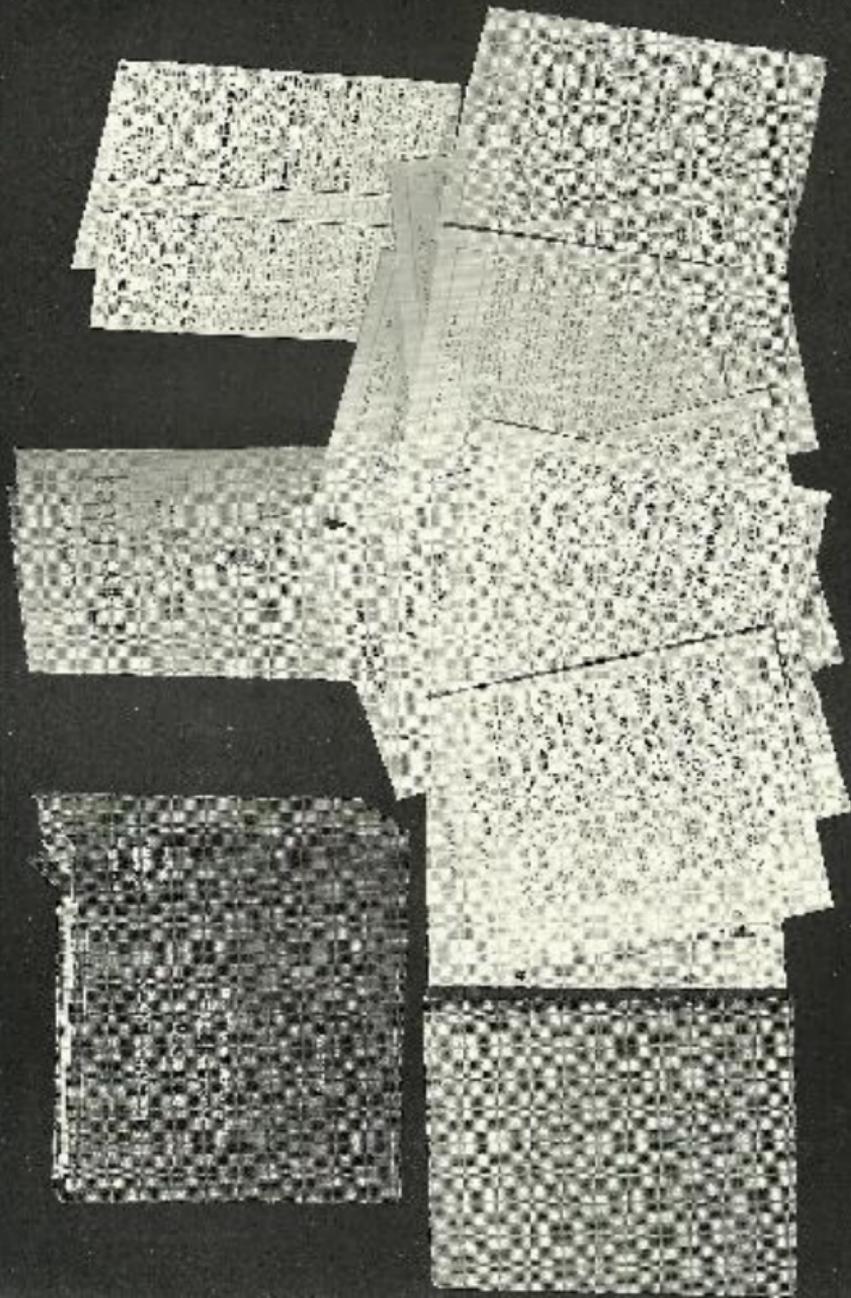
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THE MONOTYPE RECORDER.



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READING THE SPECIMEN BOOK

PAGES WHICH TELL A STORY OF TYPOGRAPHICAL PROGRESS

Members of the printing and large publishing firms who possess our two-volume loose-leaf specimen book can deduce, from its successive numbered series, something of the history of "Monotype" machines and what they mean to the world. The Book Prices volume is aptly mislead the outsider, for the kerns seen in the current specimens of Series Nos. 1, 2, and 3 were later improvements. Still, the series preceding No. 100 (printed out in 1895) do represent the period when it was a great triumph for us to be able to produce large (legal) type from Mr. John Murray, saying that he had "for some considerable time past" and every of his books set on "Monotype" machines, and had "never and say so" plant, to include any comparison, between type set on and type set by hand.

In those days it was enough for us to be able to prove that single-type machine composition was not lowering the standards so seriously maintained by the great book houses of England and Scotland. If the book fairs of the day were rather dry and spiritless, compared to older designs, few people had asked the forerunners for anything but—well, the very thought of asking, said Mr. Gerard Maynard and his colleagues on the *Republican* magazine, challenged us in 1902 to produce a twentieth-century re-statement of Caslon. The by then, more or less, in the book field had already been secured.

"JOBBER" A CASTLE BURN

The "Jobbing" volume is the more revealing of the two. It should be remembered that the standard for casting types to 36 point for case

was a new thing in 1902. What had happened in the meantime was that "jobbing" series were demanded of us, and supplied, in sizes up to 12 point. This was a rather serious business, but we had to clear up a vendition problem in some what so.

"Jobbing" means in effect "not continuous reading matter". A set-set for ornamental letter, or any other series differing in design from normal roman and italic, is not fit for continuous reading. Such is our line for continuous reading. Any of set, even of the best, "normal" series or style design, is unfit for continuous reading. The Victorian printers, at just these times, brought together the too great, the too hard, the too long—and set for them all "Jobbing Fonts". "Fonts", not "designs". Hence in these days a font of type was a non-"real" thing for it is to day; it was not thought of as metal temporarily forced into this or that design, it was a purchased thing.

But the old categories have broken down. For example: Twelve 36 point type is certainly not loose type. But the *Book Size* design is certainly a "book size", even in its primary purpose, is to be extremely readable and pleasant in the "book size"—around 27-point. So the

our own printer speaks of "a display size" of Baskerville, and looks for it in our Book Faces volume.

TYPE REMITS—A MOTIF OF 1884

That is nearly seven explanations when it comes printed, having decided to install say 5, 10 and 12 point. One more! (13) has to come from its specimen leaf in the Book volume or that of Series and in the jobbing world in to find the solidly reduced lot of that same design, a set of which he will put in the same machine-cut and use for the same typebook! Technically, Caslon and Flagg is still a "jobbing series", because its colors, which gives it such a volume, is to have for continuous reading. So that means little to the printer of the job—*see* *see*.*

Linn Boyd Benton invented the mechanical engraver of galleys and cylinders in 1885, probably the most important date in the history of typesetting. After ten or twelve composing machines practical, it changed everyone's attitude towards type faces, by transferring the emphasis from size to design. The work was done, Mr. Henry Lewis Bullen, of the American Type Foundry Company, who was also a friend of the great reformer. Dudley L. D. Wood was the first to seize on the immense conditions of the change. The "helix" bold and the concept of the "Type Family" (of one basic design) are two developments, neither was the idea of setting, nor finely shading, book faces. Typographers today glibly say "Bullen" and mean a recognizable way of setting, curves, serifs, stress and proportion, so as to produce a well-known design. But it was Mr. Bullen, we believe, were thought up the label in plain of our work and ours is "The A. T. F.'s recurring of Meres, Caslon's Old Face No. 1".

So when we have called the "post-Benton era" has produced by entirely different methods to type and job design, that the "jobbing series" were

inclusion in designs—grain-looking Latin Antiquar and Greek, Flagg Gothic, Albion and other series that showed in every line for they were never be covered inside a book office. The Victorian handball was a dream coming into the newspaper "displayed" ad, and changing very little in its style. It was the streamlined style developed by a generation in which all advertising was thought of as looking, and therefore low. It was the aesthetic result of assuming that a type face was either fit for continuous reading or only fit for "jobbing", to Ours Darkness. A bold was a distinct category of face—as distinct as a star.

EMERGING THE DISPLAY SERIES

So again our earlier series, this time in the Jobbing Book, putting the size and name as nearly providing what the founders could provide and even then, only in the composition size, which prevented some of the worst monstrosities of "get-it from wanting our regularity."

Our first "display repository" consisted of a number of interesting jobbing faces imported from America. In 1913 we issued a book of 20 sheets of 24 columns of Display Minutes, with a card slipped in to a pocket at the front, offering the notices of 20 sizes (including six 12) on loan, in sizes from 14 to 36 point. The first edition was "What may be called 'heavy faces' are rarely met with in day, therefore none have been sold. Instead, we have confined ourselves to the purely legible". But that same page of "Introduction to the Jobbing Series" would be something hardbouncer than Clarendon Bold and the like, to put in the "legible" column for our page happens to be the first appearance of our Series 015—Pannin—this was to become the spearhead of the post war improvement of advertising typesetting.

It was by carrying large sizes of "classic" faces like Pannin that we first received an inkling of our modern display style. Not until 1924 did we get

**Illustrations of the early of the A. T. F. in the Book Faces volume.*

a strike, but was obviously designed for large sizes only — see Book Face Outline. There was a great suggestion of book faces in display, and we tried to do anything more in "jobbing" design than to keep pace with the demand for large sizes. Gill Sans (1904) was our first important "antagonist" in this field, and even today we make our attempts at new fashions in display. Our customers are fairly evenly divided between those who think we have set an entirely new face, and those who regard us as the "ending the fish-and-ship" — chiefly by losing the more novel detail. Our middle course is to organize display designs only when we are certain that a new design will keep on being in use to the point of being altered, which is ten to one for us in a Book Face Letter.

The coming of the world war has seen "end" and "jobbing", and the coming of new concepts like "display", "type families", and "combinations", and has in many cases led our customer to abandon the old categories, and encourage a fair license in substituting color of main names. What is why we had to include index-pages of names as well as of printers. Anything is possible with a loose-leaf book, for the pages are kept separately, and with the help of a few indexes, as it is easy to group the 27 sheets of the *Outline*. Gill Sans stands together, to get all *Plate Gothic*, etc., together and to lead the two volumes simply A to M, N to *Bookface*, etc. We have not unhesitatingly redefined the two main categories, because most printers will doubt in serious moments, and those who do not are more likely to leave the complete book on the reformer's shelf and use our *Plan Facsimile* (made up of selected items likely to be consulted) for use on the desk.

The latter is almost always made up of three separate but related index of names, so that the index is tabbed so as to locate an earlier type family, such as the series comprising "Minus-type" *Bankers*, etc. Those to whom this arrangement seems the only

necessary one may be reminded that it is based on typographical concepts which scarcely existed until our own generation, whereas the practice of quoting series numbers in specimens introduced by ourselves in printers' nomenclature is almost new. The line-and-the-dash notation between "book" and "jobbing" types is still older. It is still possible for a busy printer to equip himself with a book face without realizing that it has a relative history for combination printing in the same medium, even perhaps because only the name index on our official specimen books bring the two series in juxtaposition.

For the present we retain our highly systematic ordering of some of the principal types for which help is given in the case where it is available. These specimens give the designer a fair idea of the look. But every design which has its own heavy or bold weights, needs to be set out on a minimum by way of the setting of such various specimens as appropriate to use of a fairly widespread demand for the "combination book" from the customer or other general printers outside the book trade.

THE NEWEST VARIETY MATHEMATICS PROCEEDINGS

Indeed, times and faces have changed in forty years. The main development of all has only begun to be indicated in our *Specimen Books*. In the modern typography a practice of so wide a range as the "end" of a letter, the size of the letters, the variety of shape and finish, the scale of the case of setting, the actual point size of the type themselves, according to whether they are used for a running column or a book case, 24-point face "top up", or "set" five points, or even on a still smaller scale of emphasis, under cuts, all set as if the same thing is regarded together, and it is not the same thing as regards the juxtaposition of the series on its own body. It is quite possible in time to come all or less "practically and naturally good" faces will be equipped for demand tubes and in our *Index New Bookface* type equipped, which is demanding, lets available for the most common type to display on, and all in a way which "book designers" will be allowed for a more graceful.

*The design of the "face outline" is with the approval of the printer's union, and is the property of the printer's union. It is not to be used in any other way than for the purpose of the printer's union.

THE MONOTYPE RECORDS

Monotype in the Spanish Baskerville style of the 18th century, with the rounded tail. These include four Galle's Old Galle, seven fine new casters of Lamil and some fine Devonian, Georgian, and T. High. One fiddle that normally included in the Dutch volume number of *Review* (No. 39) and the great number of that group (No. 12) will be the copy of a mechanical review of politics. Taken out in the private number of Lamil's letters, such as the University Press, are not included in the general list. Some Baskerville copies that seem to be mixing Spanish letters.

The not infrequent appearance of some variations of a set of letters in Dutch style (with English capital letters) and the very general existence of capital letters. Does this show that the demand for many fonts operated with the Continental casters. The border section, by its recent numbering in chronological order, it is a way of the change of type that disappeared the set of things (No. 10) than the  (No. 12) finally the  (No. 13), as the other set border added with the paper (No. 14) are mechanically produced with the place of the actual "lines".

The Row's existence have given with every printing, and the right of 1800 and 2400. All that is a number the collection of one thought that could not be held for the 5th of 1800.

One Specimen Book is never complete; they are fully 1800 and only about three in every year. In between the settings of supplementary are replaced sheets and New Letter a counter and the type is newer "additional size" and new from 1800 to the increasing use in the matter who notices that the series number almost always represent the chronological order of the series. These sets were as a document of the actual changes. The list in book were not then in the copy (No. 10) but here, through "Monotype" machines from the days of Modern No. 1 and 2 (No. 10), from the days of the working facilities in the days when all of the "City Books of the Year", all the modernized letters, all of the extra samples, and the very nature of the "repeated" original and printed parts of this and other letters, one with "Monotype" machines.

It is not known how many of these sets were actually printed, and the only one that is known to have been printed is the one that is now in the collection of the British Library.

RELATED BOLDS: SOME IMPORTANT BOLD TYPES WHICH HAVE AND OTHER TYPES LIKE THEM AS WELL AS NEARLY RELATED "RELATIVES"

- "Monotype" **ALDINE BEMBO** Bold 428 roman, A as set and successful Italian to use with "Monotype" Aldine Bembos (No. 6, 8, 9, 10, 11, 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, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000).
- "Monotype" **BASKERVILLE** Bold 428 roman, set to combine with "Monotype" Baskerville (No. 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 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, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000).
- "Monotype" **BODONI** Heavy 260, roman/italic, set to combine with "Monotype" Bodoni (No. 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 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, 33

READING LIKE SPECIMEN BOOK

"RELATABLE FONTS"—continued from p. 6

- "Monotype" **GARAMOND Heavy 201**, roman/italic, cut to combine with "Monotype" Garamond 177 in 6, 8, 9, 10, 12 and 14 pt. comp. and in a mixed display case to suit all cases in the 72 pt.
- "Monotype" **GILL SANS Bold 275**, roman/italic, cut to combine with "Monotype" Gill Sans 252 or 362 in 8 and 14 pt. comp. and in a mixed display case in 14 or 72 pt. (rom.), 14 to 72 pt. (ital).
- "Monotype" **GOODY Dink No. 3**, Series 411, roman/italic, cut to combine with "Monotype" Ginn's Old Style 291, in 6, 8, 10 and 12 pt. sizes.
- "Monotype" **HORLEY Heavy 263** roman, cut to combine with "Monotype" Horley G7 252, in 6, 8, 9, 10, 12, 14, 16, 18, 20, 22, 24 pt. comp. and in a mixed display case in 14 or 72 pt.
- "Monotype" **IMPRINT Heavy No. 2**, Series 411 roman, cut to combine with "Monotype" Imprint Old Style 292 in 6, 8, 9, 10, 12, 14, 16, 18, 20, 22, 24 pt. comp. (This is an improved version of Horley's Imprint Heavy No. 2.)
- "Monotype" **ITALIAN O.S. Bold 149** roman, cut to combine with "Monotype" Italian O.S. Style 148 in 6, 8, 9, 10, 12, 14 and 18 pt. comp. Available also in 7 and 14 comp. and in 72 pt. display.
- "Monotype" **PLERFUDA Bold 261** roman, cut to combine with "Monotype" Plerfuda 252 in 6, 8, 10 and 12 pt. comp. and in a mixed display case in 14 or 72 pt.
- "Monotype" **PLANTIN Heavy 196**, roman/italic, cut to combine with "Monotype" Plantin 170 in 6, 7, 8, 9, 10, 12, 14, 16, 18, 20, 22, 24 and 26 pt. (rom.) comp. and in a mixed display case in all sizes up to 26 pt. Also combines with Plantin Light 177.
- "Monotype" **POLTAYSKI Bold 396** roman, cut to combine with "Monotype" Poltayski 394 in Dink composition cases. (Polish.)
- "Monotype" **ROCKWELL Heavy 381**, roman/italic, cut to combine with "Monotype" Rockwell 371 in rom. Light 382 in 6, 8, 10 and 12 pt. comp. and (rom.) in display case.
- "Monotype" **TIMPS Bold 334** roman, cut to combine with "Monotype" Times New Roman 327 in 6, 8, 9, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 42, 44, 46, 48, 50, 52, 54, 56, 58, 60, 62, 64, 66, 68, 70, 72 pt. Also bold in 14 or 18 pt. display. Another mixed bold is Series 342.
- "Monotype" **WALTON Medium 378**, roman/italic, cut to combine with "Monotype" Walton 374 in 6, 8, 9, 10, 12, 14, 16, 18 pt. Eng. roman, roman/italic, in roman bold in display case 14 or 72 pt. roman bold in Black 5, 10, 11, 12, 14, 16, 18, 20, 22, 24 pt. size 14 pt. Eng. roman.

NOTE: This specimen is presented only with each bold in one sketched or slightly uneven with particles, with a casual weight touch, and from the best work available of "best ranked" design. Bold faces that cannot be achieved consistently with other faces. The "bold bold" is a comparatively new phenomenon in the history of type setting.

THE "PRICE" OF THE SECOND COLOUR

In every up-to-date class in typographic design (as distinct from the mere mechanics of layout) the question of the second colour is now being approached as something more than a matter of "costs". It is introduced first from the economist's, then from the functionalist's, point of view. The one most important thing to realize when one is considering the use of a second colour is that it adds "X" per cent to the cost of the job. Having "found X" in a particular case—let us call it 20 per cent—its having a specific figure—the designer escapes the danger of being lured away from the very idea of a second colour, as he often is, on the ground that it adds "a lot" to the cost. He now has the

right to go ahead and demonstrate (if he can) the difference. The amount varies from 50 to 100 per cent (25 per cent "effectiveness"), in which case he is proposing a very sound investment. If the job is not meant to persuade and impress people psychologically, then of course the question does not arise, but if it is (for example, an advertisement for a business), it is just as stupid to advise *against* the second colour "for principle" as it would be to eliminate illustrations because blocks cost too much. The point is that one knows what the blocks will cost, and what they will be there for; illustrations are not put in or left out simply as a "matter of taste"; and the same of colour likewise, just as serious considerations govern its use as taken for granted by the finishing designer, and too often on the other hand, it is thought of by practical printers as a mere "obstacle around the point".

So much concerning the money aspect just after in the principles, as well as the practice, of layout. But this article is meant to go further into that question of the "cost" of the second colour that every maker of jobs is now willing to go.

We may start with the obvious principle that no man deserves a second colour if he is not willing to pay for it. We may go on to agree that "payment" is not always wholly a question of money-payment, but it always is, in a really a matter of willingness-to-spend (for when a client's cheque breaks a

Specialist's enthusiasm. Now we are back about the whole "cost" of the Second Colour.

One great difficulty which confronts the instructor in typographic design is that he is bound to inculcate "guiding principles", and is bound entirely to do so. From a strictly, how then, give the student a really "spatial" White to a conscientious necessity, he finds his student's imagination typical problems; but until he has "suggested", in some detail, the material which the customer can afford to spend and the degree to which the (may be) printing office is equipped to return a good many-sorts of, he has not stated the problem fully. His complaint is in substance so much, for the cost of his work is an argument.

WHAT IS THE BEST "SECOND COLOUR"?

There is no great deal of variety, but before the cost. This is a matter of one inch, because one that one has made a use of the "old" "black" colour to black, which is White—white space, is scattered about indistinctly, or is if mixed with dramatic effect. As the margins are not, and it is thus a simple matter between lines and paragraphs. If not, the business of printing is to mean White may vary in the way of page or a better format, or more expense of layout time, or a revision of the copy. A letter it is obvious that until "the colour White" has been properly altered, the designer has not given

the estimator the full faces on which the business can be sold how much more the job will cost in "black and white." A percentage of "A" is a satisfactory price, a percentage of "B" is the maximum "B" always means more than "A" cost of printing the job in "black." It means "the cost of making the maximum possible number of sheets of black and white printed sheets that convey a message".

So much the designer can do his student without going beyond the steps of his subject. To bring it down to practice, he may call upon each student to design (say) a brochure in two colors, and then show the class how one layout made the red letters all extra effect tends to already eliminate more "black" and white, while another already full "black" on the entire line, that is, if set to some "inferior" into a beautiful, orderly, well-balanced layout. In the good example, he would say, the designer "takes up" the price of the second color" by paying for thought and economy in the black frame and the white paper. The designer uses his own design as a parallel the young wasted who seems on a rich trade to get him out of his difficulties until the price is decided to invest in a weather object.

As to the student's natural desire to speak about with words like "black and white," and the implied: he has been taught to think of the use of red as a privilege to be earned, not as a tribute to be received. But unfortunately he is still slow to consider the whole problem of use of layout, and in doing so he is making something for a moment which no printer's price would ever take for granted unless the mother were to do his bill wanted.

WHAT ABOUT RED INK?

For when a designer says "black" he is speaking of something else which he has a distinct way have very little control, namely the effect of covering new type evenly with high-quality ink, after enough unlit red machinery and trial, working to give the perfect jacket for "all tones and tints" and the printing in the light area with careful skill.

This is what "black" means, or should mean, to the designer. And if he has any say at all toward the layout stage, he has the right to emphasize the difference between "black" in his sense and the "duplex gray" which results from using printing systems on (or near) black with the request for the allowing them insufficiently, and then hurriedly

printing upon the cheapest variety of the specified kind of paper.

The practical printer of course is forced to split his time away. He knows that the difference between cheap and high-quality ink can be as much as for a pencil business. In minutes the difference between preliminary and accurate makes-up, and setting machines, it is more than to work for a customer who appreciates the extra cost of type maintaining, on paper that is "black and white." But he also knows that if he estimates for every job on the understanding that the black frame is to have absolutely "B" treatment, he can either lose or win a considerable number of estimates.

It is morally wrong, the printer says, to raise the estimate by simply speaking of the profit, because it is so his profit is an individual that he would sacrifice; he would be robbing his firm and is changing its health as a firm. Presenting in the sense, it morally is more honest to advise with the customer to reduce the firm of its fair profit. But the printer goes on to say he expects whatever is shown to be the straightforward statement of the printer's much less value for so much less price. It need not be stated to finally, either, for the rule cannot apply to any such bargain.

WHAT PRINTERS WILL SAY

There is always a point at which the customer pretends to be absurdly craving any means at all of his of his, and faces the logical question whether he should not save the whole cost of the job by simply abandoning it. It is morally his right to the printer's interests to insist upon the effect. The nearest that printer's answer can be to it is to say "Red is good. Now, you're looking for a cheap job, yes? We can't afford to use the first-class inks and set-up, and we can't afford to let our employees imagine that there are two or three different kinds of ink in the world. What if I buy one pound in the lower market, and we should be able to reach our highly-skilled machine men very long if we called them in. In price order's acceptance of, in which setup business is considered a luxury." The printer's answer, and does not say all that in the very few words in which he turns down certain kinds of requests for estimates. But it is pity that he does not often trouble a say it on, and to go on and show why his own customers are very content indeed that he should make a

THE "PRIME" OF THE SECOND COLOUR

positive of treating his workmen fairly, the not trusting their side an steady materials and trusting every job fairly, by doing an impossible pressure.

But the independent typographic designer who has no way of telling in advance, while he is making his report, whether the job is to be handed to a good printer or is produced on his own terms, or whether it is a job in a house where he has no direct control, or if the customer's ability to see anything wrong with a cheap job, short of a glaring misprint, is a penny on the bill that was not on the estimate.

You will see that I have traced the designer to enable you find out who has the right to refuse to pay, in the whole, middle class, for the first colour. If he is not, he has no moral right whatsoever as a human being. Any sort of robbery is wrong, including the robbery of Peter to pay Paul, and this one would be particularly stupid, for he, who instead of looking like a weakling fellow, would look like an extravagant and precocious failure. The page that has a milky or spotty black impression is bound to be covered into white with, red, red or blue, and every and every mistake will be done in the work to the second colour.

This is, of course, none of the layout man's business. He is bound to arrange (lay out) words and pictures in electric order and style. But that is precisely where a good layout man, if you know, or falls short of being a designer.

A DESIGN IS "AN ORDER"

To design now is to intend to have or to receive certain definite intentions, and in "realize" those intentions. A bad design is one in which it is difficult to spot the precise intention; it has been half-spoken or discarded at the stage. Hence the first and unending responsibility of the layout designer is to make quite clear what the printer's job really intends. If he finds a swarm of vague, half-hearted, and arbitrary intentions, it is his duty to ask leading questions and mean to present a definite picture. If he finds that the strongest single intention is to save money, he naturally recommends saving of the money, except the Advisory Fee which he charges for being certain

in his costs and work than when his subject. He has the right to do this questioning and following-up because he is a designer, a creator out of materials, and he has not earned his money until the whole intention has been fully carried out. I type, I type that means that the price of a piece of work is the cost of the material when they were intended to work. Anything that goes wrong in between, from a flimsy envelope that delivers the job crumpled back, through lost passwork, broken printing and heavy traced composition, back to his own class of type faces, paper, etc. can be laid at his door so long as he has managed to design a piece of printing, and he is bound to "make a profit". Awareness of that makes him a realist. He learns to cut his coat according to the cloth, and shows all to make the fabric, and take it cheaply, but he does not. He knows that a customer will be blamed even for a hundred set when you think it will be done, no design is needed the job can "go through" it.

Realizing this, the designer intent of typographic design will often visit many a printer in a house that he has generally shown in the past. And he will not hesitate for a moment to print on his own most job with a "disparted" printing office, where a few general demands of a network demands, it is best to offer the "prime" of the second colour by informing the startled and incredulous house that its estimate for the job should be based on the finest possible machinery, the finest ink, ample time for make ready, etc. (page with printing on, does not say the will print only one day there, a good price, except his fair price, etc. when he, machinery, etc. for granted.

In that way the customer is prevented from getting his second colour by cheating. It is the misfortune (and plight) of good designers that they cannot keep untried, but in that work of the printer's job, why, their source of livelihood, to come in a hasty way. Immediately, it becomes their duty to see the intention of the job reached by his craftsmanship. Hence we shall have better and more dependable designers when all of them are taught to be as "responsible" for the quality of passwork as for the layout, and when they all refuse to talk about a second colour to a man who is not prepared to pay what a Black and White charges.

THE QUADDING AND CENTRING ATTACHMENT

Own Quadding and Centring Attachment, has reached delivery stage, and many have already been supplied.

The demand for this attachment has exceeded our expectations, as we have had one hundred and fifty orders being placed since our final measurement two months ago. Nearly all of these orders were placed after demonstrations at our School in Tenter Lane.

Deliveries are now being made at the rate of one attachment per week so far as the undertaking, but it will be some time before we can catch up with our orders. We extend our apologies to those our users who feel that need to be impatient regarding the unavoidable delay in our part in effecting delivery, and advise users of "Monotype" machines who have not yet ordered this interesting and paper-saving attachment, the delivery of which can be effected in a matter of weeks, to the date of receipt of order.

For the benefit of customers who have not seen the device the following description may be of interest.

The device is an attachment to the writer, the only alterations to the standard keyboard being a special one each for quadding keybars, and two special keybars.

The writer's attachment consists of a set of fittings to the paper carrier and column pusher, the purpose of which is to cause the paper ribbon to remain stationary whilst quads or tabs are required to be spaced. The attachment has two purposes. One purpose is to make quads in

characters to be spaced in groups of five or ten, where the quantity required is known; the other purpose is to make quads or tabs in an arbitrary until the required number has been estimated, the quantity required to suit himself.

For the purpose of distinguishing these two different functions, the former process is termed "quadding" and the latter "spacing", although both actions are really repeating, one being intermittent and the other continuous.

The Levator operator decides which process shall be adopted by depressing either the "quadder" or "spacer" key, and the final results are automatically explained in the matter. When the quadder section is brought into use the paper ribbon is held up for five revolutions, and then released for one revolution and again locked. This action is repeated until the line is complete in length.

In the case of quadding the "spacer" section causes the paper ribbon to remain locked until sufficient quads have been set to make the line complete, when the line support causes an air valve to be opened to release the ribbon.

For setting up a word or words in a line, no assistance of the length of the word is necessary. The operator depresses the "spacer" key before inserting his setting piece in a couple of spaces, sets the word, for two more spaces. The one space then indicates to him how many extra spaces will be required to cause the words to be set centered. The "quadder" takes care of these

THE MONOTYPE RECORDER

after the words, in groups of two and the "recorder" sends to it the silent leads the case before the words to make the line about 1 1/2 high. By the "recorder" set a waste line of space, no matter what the margin may be, is occupied by one key depression.

The modulus of the device is not limited

to only a right and left spacing and word centering, but may be applied to a multiplicity of spaced-out leading words, in work where many leader lines are involved. Also for form setting, where it is only necessary to perforate once for a whole line of work, just set of case for every line that is required.

EXAMPLES ILLUSTRATING THE PRACTICAL APPLICATION OF A
MONOTYPE'S SPACING AND CLIPPING ATTACHMENT

I—Spacing to the Right-Hand

INVEST.
EARTH-QUAKE IN THE U.
CALIFORNIA, D. C.

II—Spacing on the Left-Hand

JOSE, J.
EARTHQUAKE IN THE U.
CALIFORNIA, D. C.

III—Clipping Words in a Line
MOUNTAIN FOR CLIPPING

CENTRICAL LINE CLIPPING AND SPACING

RECORDED

RECORDED TRADE MARK

Y—Line: (1) Center, (2) Right and Left Hand; (3) Right
and Left with Center Spacing Attached

(1)
(2)
(3)

11

12

13

THE MONOTYPE RECORDER

14

15

AN ELECTRIC JOURNAL OF TYPOGRAPHY

QUANTITY AND COSTING STATEMENT

FURTHER EXAMPLES OF THE PRACTICAL APPLICATION OF THE
QUANTITY AND COSTING ATTACHMENT

V—Lumber Work (Class Work)

Carpenter, George Thomas	12	6	7	21	0	7	4	00
Coffey, Frank	9	5	1	106	0	0	51	00
Dodds, Frank	10	6	8	10	0	0	30	00
Edwards, James	21	0	8	25	2	1	35	00
McNair, John	12	0	0	27	12	0	30	00
Reed, Carl	12	0	0	100	0	0	11	00
Roberts, Frank	8	0	6	18	0	6	3	00

James, Alex W., Sheriff	..	..	..	..	..	..	11	00
Dr. W. George, J. C., Sheriff	..	..	..	..	..	..	12	00
James, W. Sheriff	..	..	..	..	..	..	72	00
James, H. T., Sheriff	..	..	..	..	..	..	75	00
Kennedy, J. T., Sheriff	..	..	..	..	..	..	25	00
Kearse, W., Sheriff	..	..	..	..	..	..	10	00
Meyer, W., Sheriff	..	..	..	..	..	..	20	00

Howe & Son, Limited	Quantity	Price	Value
Pine 100 & Fir 1000 to 2000 Lumber	..	..	..
Various other Lumber	..	..	..
Upson & The Iron Works	..	..	..
Shannon & Co., Iron Works	..	..	..
Manufacture of Lumber	..	..	..
Insurance & District 1900	..	..	..

VI—Work on right and left: Central Title

Re - wire	"Round the Map"	South
Two - wire	"The Spine Column"	North
Four - wire	"Broken DeL"	West
Monorail	"Remont de Pirouette"	North

flow stream might want to do, but don't all the special stuff he will in weight or might not want in a year.

Figure 4 reproduces the page of French text in the new edition of the *Notionnaire des Arts*, in which the important abbreviation of "his type" and lines under essential machinery symbols is emphatic. Figure 5 reveals a page at the end of the forthcoming edition which is supplementary to the general French and English texts of the manual, showing the outline of the machine when fitted with



FIG. 5
[FACEHILL]

**ADVANTAGES OF THE MACHINES' VERSATILITY IN
AUTOMATIC COMPOSITION**

[FROM THE NEW ATLAS-MACHINE SERIES]

Two-way (Spacing, Clipping and Line) Setting	17
Line Size Composition on 36 points	19
Composing in a National Language	20
Automatic Composition for Chicago Work	21
Composition for special cases of following lines (such as "one or two lines" or "one or two lines")	22
Left-Handed	24
Setting in two sizes for 2 sets of type	24
Setting in two sizes for 2 sets of type (with 2 sets of type)	25
Setting in two sizes for 2 sets of type (with 2 sets of type)	25
Setting in two sizes for 2 sets of type (with 2 sets of type)	25
Setting in two sizes for 2 sets of type (with 2 sets of type)	25

**ADVANTAGES OF THE MACHINES' VERSATILITY IN
TYPE, LEAD, RULE & SPACE CASTING**

[FROM THE NEW ATLAS-MACHINE SERIES]

Setting in two sizes for 2 sets of type	25
Setting in two sizes for 2 sets of type (with 2 sets of type)	25
Setting in two sizes for 2 sets of type (with 2 sets of type)	25
Setting in two sizes for 2 sets of type (with 2 sets of type)	25
Setting in two sizes for 2 sets of type (with 2 sets of type)	25
Setting in two sizes for 2 sets of type (with 2 sets of type)	25
Setting in two sizes for 2 sets of type (with 2 sets of type)	25
Setting in two sizes for 2 sets of type (with 2 sets of type)	25
Setting in two sizes for 2 sets of type (with 2 sets of type)	25
Setting in two sizes for 2 sets of type (with 2 sets of type)	25

Note: In cases where a wide format is required for the Composition Unit, the machine can be fitted for the purpose of setting in two sizes for 2 sets of type (with 2 sets of type) or in two sizes for 2 sets of type (with 2 sets of type).

optional attachments. Of these the newest is the device which permits exact line spacing by abolishing the "minimum" space allowance and repeating words in the line, usually by equal fractions of the word space left over at the end of the line. By this means there are no variable spaces in the line, so the first letter of every word (except proper nouns, etc., in the line) is simply cast with extra thickness at the left of that type. This attachment has been proved advantageous in actual use in narrow column setting requiring extra close spacing, and in important average setting in narrow columns and paper is an incidental advantage.

The American Composing and Casting Attachment, mentioned in the pamphlet, is distributed with examples in a special folder, which a mail-order gets in a rush.

The booklet will form a useful manual for business men. The instructions, being, and a helpful reference work for those who are unable to make the visit, but all want to "keep up with Monotype" machinery.

ON THE USE OF VERTICAL RULES

BY MARSHALL R. WARDEN

FOR ALL STATISTICIALLY MINDED, it might be an interesting mental exercise to estimate the length of brass rule used in the printing offices of this country by two or three cities. We might then learn how far, or how many times round the equator, it would reach, or if the worked pieces were placed end to end, how many times higher than the Nelson column they would measure. Unlike most statistical calculations, such an effort would be of small value as a guide to future action, for with the growing number of "self-feeding" "Morse-type" machines, printers are quickly appropriating the advantages of the feed-and-rule attachment for their composition casters; or are utilizing the Super-Castor feeding mechanism which is efficient operation on the right side of their own casters.

Even so, there are times when it is a greater economy to have a job complete with rules when it leaves the presser, and it is in these instances where the use of the vertical rule will be found to have a practical application.

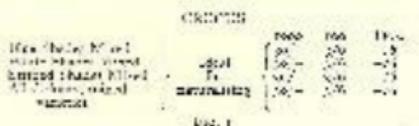
Vertical rules are in fact no any thickness of the body required for the job, but the convenience for us consider the vertical rule that on an 18-inch body and that can be used in a body. The longitudinal rule is an essential feature, however, and many plants of which we speak in this article, for example, taken from a Government's design, is given in Fig. 1, and will be found containing the advantages of being a rule of the job within a minute or two after it has left the maker's partially obsolescent.

It is known that the vertical rule which is used in many cases has been found to have a life more than twice as long as a rule, so in Fig. 2, with the same dimensions, by horizontal rules, such a job would now demand at least a half an hour longer for the time involved in its use. By utilizing a vertical rule, however, in a similar position, the job is in a more simplified case. Having now, with the vertical

rule to operate on a circular, as shown in the simple example (Fig. 3).

Other examples could be given in the same manner. The example shown in the diagram in Fig. 4, was prepared on the forehead as part of the ordinary type matter. It is a small circle known from personal observation that the up-and-down "bill" the only one of its kind in industry. The bill of Fig. 4 is the special one used in printing No. 20, 10 was also used in the bill of Fig. 5, the vertical rule being in a 10-inch body, or 13-inch body, of the same size, have been used if more convenient.

These examples give some indication of the variety of applications to which the vertical rule can be applied.



Many other applications will suggest themselves to individual printers. There is no bill of exchange, or bill of sale, the local pressable or printing, has shown that it helps to make the vertical rule will be found in other, only a small number in the job in which, show pieces of the hand, but they are not used.

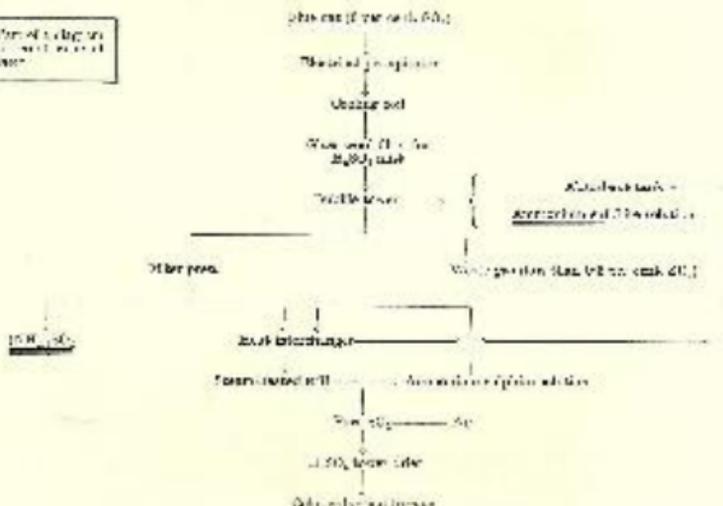
Let us now discuss the setting of these jobs, and give a few hints of the application for suggested.

THE MONOTYPIC RECORDER

with the possibility of microscopic this and minus errors which might be caused by encroaching the weak's space, and each section of a cell will be spaced out with pre-determined accuracy. The easiness of this plan will be made perfectly clear if I re-called that when an alphanumeric code, the same is made in one of the pages of a monotypic line recorder

127 units, and that if the number of units taken by the words is distanced from the total and can be made up by using fixed spaces, the words will be exactly 67 units, no more, no less. With every line written out on this principle, the vertical lines are always in the same position, and the words fall one under the other and produce an ordered line.

Fig. 4—Form of coding on a monotypic recorder of 127 characters



THE IMPORTANCE OF A PAPER STRIP

One of the advantages of type composition on "Monotype" machines is the separation of the two functions of keyboard operation and type casting. The operator of a "Monotype" keyboard is thus able to concentrate solely on composition without being distracted by the details of type casting; simply the type cases are able to do their situation solely in the production of good type.

These two functions may be executed by the use of a single link between them is maintained by a paper ribbon. Type composition is recorded by means of perforations to the ribbon in the same way as in a plain strip, and the casting machine is entirely controlled by the perforations which have been made by the keyboard operator.

This *Monotype* Cardboard, both as a link and as a recording, and the efficient working of *Monotype* machines depend largely on its character.

For this reason considerable care is taken in the manufacture of this paper and every printer will be interested to learn of the exacting tests required before it is passed for service.

Printers throughout Great Britain are familiar with the *Monotype* paper which plays such an important part in their composing departments. A printer in the West of England showed his appreciation of the quality of this paper by using the stamped-out pieces as a record of his work. *British* printers may be surprised to learn that the *Monotype* line is not available in the United States of America and Spain, where a paper is used, in France, Italy, Switzerland, Germany, and Italy.

Germany, Italy, France, and Switzerland, it is yellow.

These are the independent manufacturers of this paper and their products are invariably sold at a lower price.

The paper offered by The *Monotype* Corporation Limited is sold at little above cost price and is manufactured mainly as a safeguard to users of *Monotype* machines, so that no undue premium may be placed upon what is a vital accessory. There might have been proportionate rise in price if its manufacture were allowed to pass wholly to an independent vendor.

It is for this reason that our foreign printers have been severely criticised by The *Monotype* Corporation Limited, and this is now available at a slightly lower price. The grade is *Monotype* and bears a label of this colour.

The manufacture of the paper is governed by many factors in order that it may come up to the work required. Certain standards of weight, moisture and absorbency, must be maintained. These standards are decided by the materials used in its making and the manner in which they are treated. The level of fibre, the time the pulp is heated, the amount of sizing and the degree of retarding or gallicising, and the moisture content are all important.

The whole purpose of the various tests to which the paper is subjected is to ensure perfect working of the paper throughout its period of service.

The paper is received in one of two ways or is full in large rolls which are 14 inches wide and run it to its full length in diameter. These rolls weigh about two hundredweight.

The rolls are taken into the laboratory where the tests are made and watch the experts at work.

The first test is for absorbency which must conform to narrow limits. An expert requires when it becomes damp and extracts when it dries freely later, or when immersed between these limits might adversely affect both the damp and the marginal perforations and also the electrical properties. Careful tests regarding the effect of changes in atmospheric conditions provide equal results. This possibility, with consequent numerous experiments, is one of the subtle perforations on the open side of the sheet and efficient correspondence of keyboard perforations with the actual initials.

Moisture absorptivity is tested by the apparatus shown in Fig. 2. The balance contains a sample of the paper from the roll. This is weighed and, after having to drain of the moisture it contains, is weighed again.

The weight of the paper is now found, hand speed, as applied to cases of "stamped machines," to maintain it in contact with the perforations from the keyboard and to weigh it. The measure of moisture performance that can be ascertained in this weight of paper is worked out from the weight of a square meter, in order to be in the normal number of perforations per roll. The paper must not be too thick or too heavily coated, yet must be strong enough to do its work properly.

As the keyboard defects affect the tensile strength of the paper, it is necessary for this small but distinct reason, Fig. 3 shows the apparatus that is used for this purpose. A piece of the paper, 12 inches long and 2 1/2 inches wide, is cut lengthwise from the roll and stress is applied to it in the setting length under test being a factor of the paper's bulk, as can be seen in the illustration, in upper and lower chords, by lowering

the bottom pulley by means of a screw thread, or increasing load is placed on the paper. The stretch of the paper before breaking is also recorded by the relative movement between the pulley (which runs eastward) and a steel field in position by friction which moves downwards according to the amount of stretch in the paper.

The lines of paper generally lie along the length of the roll. This tends to give a greater degree of tensile strength in this direction. The varying humidity of the atmosphere also affects the grain of the paper to a greater degree in a clockwise than in a lengthwise direction and the paper reacts as in consequence. The paper is tested for expansion and contraction under atmospheric conditions from a strip of paper of 20 inches wide is cut across the grain of the paper. This is to say, at right angles to the length of the roll. This test is made to safeguard against excessive expansion or contraction which might take place between the perforations in the spaces of the keyboard and the use of the paper to the center.

The test is made by measuring the movement of the minute strip between complete exposure and through generator. The strip is mounted on a circular drum for use in a horizontal dial stand in order until it is completed. The strip is then suspended to a circular chamber (see Fig. 4), the upper end of which is fixed and the lower end clamped to a movable indicating arm. The indicator is actuated by means of a screw and the circular chamber closed. The air and the moisture are then removed by means of a vacuum pump, the chamber being double-ported between the vacuum chamber and the pump. The degree of vacuum (which is not completely a read off a barometric tube, the degree being maintained for each sample of paper that is tested). The degree of wetness or humidity involves in the test is, of course, far greater than that which would occur under actual working conditions in a normal atmosphere, but as the movement of the paper is proportionate to alteration in the humidity of the atmosphere, these tests have a similar basis for the comparison of different varieties of paper stock.

It has been said that the paper has a greater tensile strength along its length than in the general direction of the fibres. The mean bursting strength of the paper is tested by the apparatus shown in Fig. 1, where a piece of paper is seen clamped at one end and pulled by fluid pressure in the direction of a circular rubber diaphragm which is forced up to the paper, eventually causing it to burst. The amount of pressure is varied in such a manner as to indicate on the dial the maximum of pressure as water power is employed on a "Monotype" machine. It is 15 lbs. per square inch, and is adjusted to the foregoing physical tests, and possibly of the paper, is tested to within 10 per cent of 15 lbs. per square inch during a small amount of water circulation which is in a pair passing through it. As the paper has to be compacted, this one light or press, the required number of sheets for each column are laid, this resistance to the average of compressed air is obtained by the quality of the pulp used in making the paper and by the drying and calendering.

Tests are also made of the amount of cost which excessive perforation produces. A sheet and 25 lbs. line would tend to produce a greater amount of loss, which, although not of great importance, might be tantamount to allowed to conform to the air pipe.

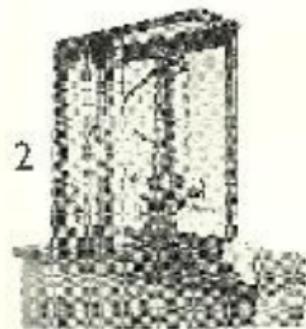
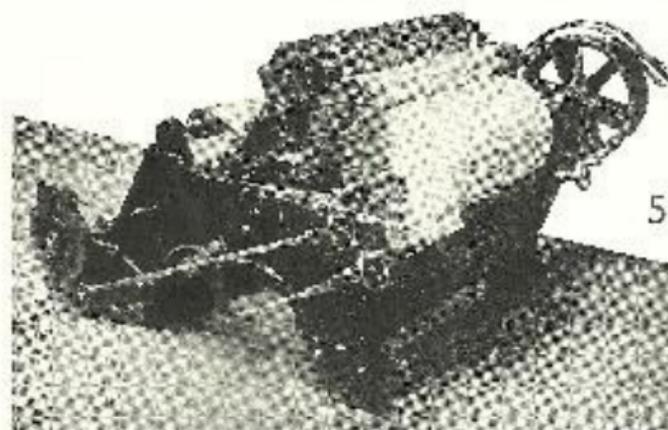
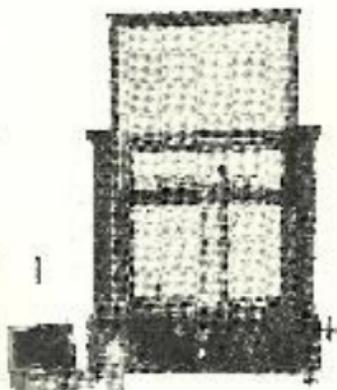
When the paper has passed three rollers here, the large rolls are ready for cutting and delivering into their final form. They are the ones the sections of the current with in the machine shown in Fig. 4. Each separate section is then transferred to the perforating machine (Fig. 2) which perforates the edges and cuts automatically when the speed is wound to a weight of 2 1/2.

The sheets are stacked into 25 lbs. paper cartons, each containing 100 sheets of 2 1/2 lbs. each. They are labelled lower or light line according to the quality of paper which they contain and the sheet tends to be designated as one of "Monotype" machines to play their part in the production of clean, sharp, exact types for modern printed matter.

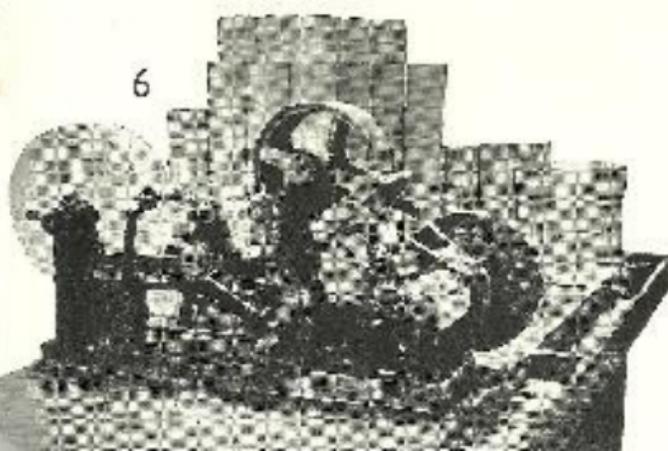
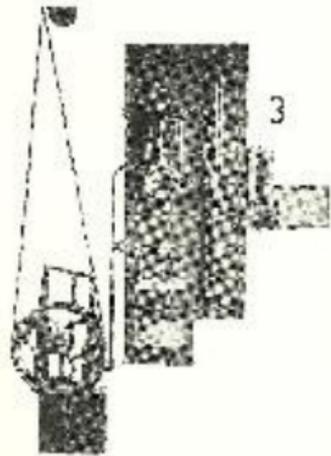
Going to the overworked economic conditions prevailing in European countries, which include excessive limitation of imports, it has become necessary for The Monotype Company, limited, to install paper cutting and delivering machinery in France, Germany and Switzerland. To follow the duty of paper already acquired with marginal perforations is so excessive that it has become necessary to supply some of "Monotype" machines there with special perforating devices similar to the machines in use the other paper plants in continental Europe and with marginal holes with the opposite type and its copy.

Our more intricate customers in England will therefore appreciate the need, though, sometimes and more often, of the special quality of the paper which they use on their "Monotype" machines. It is not only not in the general interests of men to encourage the sale of inferior paper, ribbon, etc., but also paper, for example, may prove to be very expensive when it comes to correcting the proofs. For example, cheap square top of a ball has been found a very useful for its purpose. Our own case, therefore, have to provide the conditions which prevail in India, Australia, etc., and other countries, as well as for the conditions which prevail in the country of better London.

For the benefit of printers who wish to use the extra perforated paper ribbon many times over and over again, such as for casing forms, we supply a general line variety of paper, which stands up remarkably well to continued heavy usage. Our extra ribbon, composed of heavy mill's band, and used in connection with the Line Depositing Attachment, and which had been in continuous use for over thirty years, was shown to us. Although begrimed, it seemed good enough for another thirty years' use. There are "Monotype" machines who have never expected existing are strong recommended to purchase a few rolls of this special paper although it is not to be added to general composition purposes.



- 1 Release the sliding mechanism
 2 Approach for the sliding mechanism
 3 Approach for the sliding mechanism
 4 Approach for the sliding mechanism
 5 Sliding mechanism
 6 Working mechanism



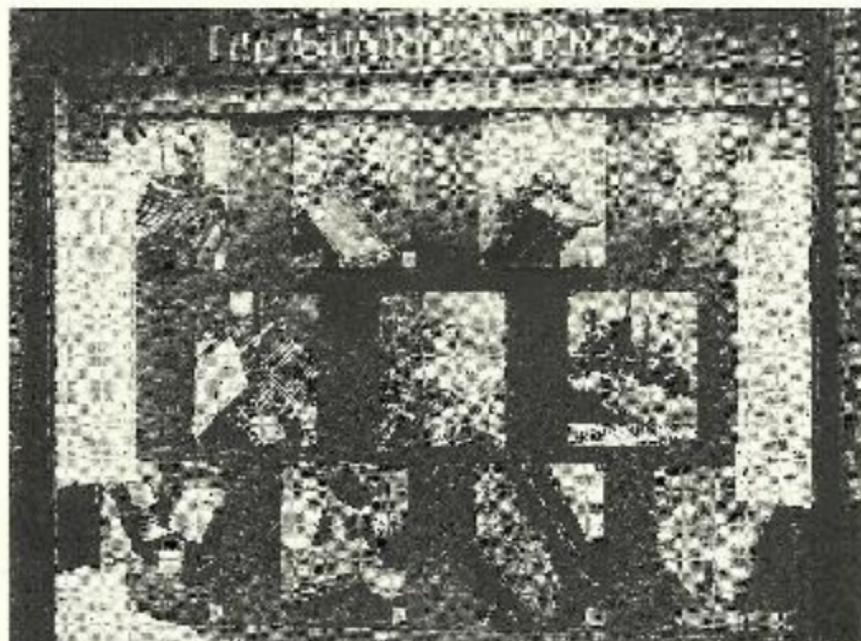
THE PICTURE BOOK OF "MONOTYPE" MACHINES

[REVISED EDITION]

This revised edition of our long-running "Picture Book" has a newly revised layout. The slight revision we all endeavored to increase the value of the book in our customers, both as window and shop display material, and as an interesting presentation piece to anyone of particular interest. The "Monotype" machines were very well applied for a complimentary copy of this book is invited to do so. Later copies in quantities up to one dozen can be purchased for 5d. apiece, and larger quantities at special rates.

The book has been used in many ingenious ways by great owners of the machine. Below we show the photograph kindly sent to us by Messrs. Mackie & Co. Ltd. showing a very successful window display arranged by them. Mr. Mackie.

The photograph in the book were taken with a window camera during actual demonstrations by Miss Joan David, Messrs. Percy Lind Humphreys & Co. Ltd.



THE MONOTYPE CORPORATION LIMITED

21 Finsbury Lane, London, E.C.2
Telephone: Central 9224 (5 lines)

For a demonstration of the Monotype Corporation method of setting type look to all the best methods of printing, typesetting, and the "Monotype" method and their multiples and derivatives, processes, and settings and also to the Monotype Book.

BRANCHES

London	West India House, 54 Baldwin Street. (Central 9445)
Manchester	King's Church, 115 Colwell Avenue. (Central 1305)
London	45 Finsbury Square. (Central 9224)
Manchester	60 St. Ann's Passage. (Manchester 419)
London	29 Lower Circular Road. (Central 9227)
London	2 Stanfield Chambers, Green George Street. (Central 9135)

OVERSEAS BRANCHES

China	The Monotype Corporation Ltd., 17 The Bund, Shanghai
India	The Monotype Corporation Ltd., 8 Waterloo Street, Calcutta; P.O. Box 96, Bombay; 10, Basu Street, Madras; 10, Madras
South Africa	Monotype Machinery (S.A.) Ltd., 6 and 7 Boston House, Strand Street, P.O. Box 1180, Cape Town
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