

carbonates are next in rank, aggregating about 86,000 tons a year.

THE report of the commissioner of patents for the fiscal year ending June 30, 1907, has been issued. According to the abstract in the *Electrical World*, there was filed a total of 66,795 applications, including 56,514 for mechanical patents; 816 for designs; 192 for reissues; 7,869 for registration of trade-marks; 982 for registration of labels and 422 for registration of prints. In addition to these applications, there were filed 1,900 caveats. There were issued 33,644 mechanical patents; 529 design patents; 165 reissues; and there were registered 8,798 trade-marks, 660 labels and 325 prints. The number of patents which expired was 25,322, while 4,707 letters patent were withheld for non-payment of the final fees; 14,565 applications were allowed, and awaiting the payment of the final fees. The total receipts of the office from all sources amounted to \$1,859,592.89 for the fiscal year, of which there were expended \$1,584,489.70, including \$932,665.59 for salaries, leaving a surplus of \$275,103.19, turned into the United States Treasury. The total net surplus of receipts over expenditures in the Treasury to the credit of the Patent Office on January 1, 1908, was \$6,706,181.64, an amount derived entirely from the fees paid since 1837.

UNIVERSITY AND EDUCATIONAL NEWS

THE graduate school of the University of Illinois was formally opened on February 4, when President G. Stanley Hall, of Clark University, made the opening address. This was followed by an address by Dean West, of Princeton University. The legislature of Illinois has appropriated the sum of \$50,000 a year for the next two years for developing the graduate school. This is said to be the first appropriation specifically for graduate work in a state university.

HARVARD UNIVERSITY has established twenty-five additional university scholarships of \$150 each, to be assigned annually, to seniors of high standing in Harvard and other colleges. These scholarships are to be awarded for study in the Graduate School of Arts and Sciences during the next academic year.

LARGE public bequests are made by the will of the late Miss Alice Byington, of Stockbridge, Mass., including \$50,000 to the Tuskegee Institute and \$160,000 to the Hampden Normal and Agricultural School.

A RESEARCH fellowship in chemistry has been founded by the trustees of Bryn Mawr College and filled for this semester by the appointment of Miss Mary Cloyd Burnley, a former fellow, now of Vassar College.

MANCHESTER UNIVERSITY is to receive £12,000 by way of special grant from the treasury for the current year, instead of the reduced sum of £10,000.

THE trustees of Columbia University have revised the statutes so that after six years of service a professor or adjunct professor may have leave of absence for one half year with full salary. Hitherto the statutes have permitted a sabbatical year's leave of absence on half salary.

AT Syracuse University Dr. John L. Hefron has been appointed dean of the College of Medicine to succeed the late Gaylord P. Clark.

DR. BENJAMIN MIGNE DUGGAR, formerly of Cornell, since 1902 professor of botany at the University of Missouri, has returned to Ithaca as professor of plant physiology in the State College of Agriculture.

MR. W. S. LOZIER, formerly instructor at the Pennsylvania State College, has been appointed instructor in engineering in the School of Applied Science of New York University.

MR. W. W. WALLACE has been appointed head of the department of applied mechanics in Liverpool University.

MR. DAVID K. PICKEN, M.A., chief assistant to the professor of mathematics, Glasgow University, has been appointed professor of mathematics in Victoria College, Wellington, N. Z.

DR. R. FUNTER, docent at Marburg, has been appointed professor of mathematics at Basel.

DR. L. JOST, acting professor in the Agricultural Academy at Poppelsdorf, has been appointed professor of botany at Strasburg.