## THE NEW FOUNDRY AND PATgravel. TERN DEPARTMENTS OF THE The arrangement of the buildings is B. F. STURTEVANT CO., HYDE the result of the most careful study and

PARK, MASS.

For several years the B. F. Sturtevant matter of inter-transportation. Numer-Co. has felt the excessive pressure of ous spur tracks permit of ready handling abundantly lighted Co. has felt the excessive pressure of ous spur tracks permit of ready handling abundantly lighted on three sides and increased business and the necessity for of in-coming and out-going freight, while equipped with a full complement of tools much more extended facilities for manu- a complete system of industrial railways including one single and two double saw facturing than those possessed by its old connects all departments. The industrial terrating one single and two house our plant at Jamaica Plain, Mass. The fire trial system is equipped with 12 pound and a double surfacer, five lathes, one of

on centres

ing. locomotive boiler, draft for accident.

Sturtevant manufacture.

which form the subject of this description, flue from a Sturtevant heating apparatus were the first to be put in operation prior below.

are of heavy plank covered with tar and building. This room also includes the metal pattorn makers' department equipped with the necessary machine tools. Adjacent thereto is the locker, wash and endeavor to simplify to the limit the toilet room for the building.

Immediately abov is the pattern shop T rails laid 24 inches gauge which is a 66 inches by 114 feet gap lathe. a drill press a core box machine, numer-Before the completion of ous would trimmers, etc All the power the new power house, a machines are operated by two 10 h. p. temporary plant was estab-Sturtevant motors, both being required lished in the foundry build- for ordinary work, but one always This comprises a serving as a possible relay in case of

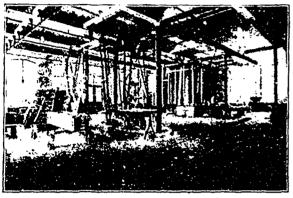
which is produced by a The benches which accommodate two Sturtevant induced draft men each and measure 2 feet 6 inches fau, and two 75 K W in width by 16 feet in length are so Sturtevaut generators arranged along the sides of the building driven by two Sturtevant 'at the men all receive a left-shoulder 13x 12 horizontal engines light. Bebind each bench is a working which furnish direct cur-table 4 feet wide by 16 feet long. The rent at 220 volts. This is benches are supported by cast iron legs utilized both for power and of special design which were built by the for arc and incandescent Sturtevant Co.; the same design is used lighting throughout the throughout the plant. They are equipped which visited this plant in 1901 had the plant. The entire transmission equip- with Emmert vises and their tops are of effect of definitely settling the question ment including motors and bangers, is of heavy maple plank. A drying chamber aurtevant manufacture. for glued work is provided which re-The foundry and pattern departments ceives warm air through the general heat

> Around the pipe columns which support the floors of the pattern storage end of the building are clamped the pattern shelving brackets which are adjustable to any height. All patterns are consecutively numbered upon the drawings as made When the patterns are delivered to the pattern storage department proper locations are assigned and records thereof made upon cards, one for each pattern.

pattern numbers. Four figures with the addition of a letter are in every case



ONE OF THE CRANE-WAYS.



## FLASK BHOP.

of removal, and plans were immediately begun for a thoroughly modern manufactory at Hyde Bark, about nine miles from Boston, where an abundance of skilled labor is always available.

The site selected was admirably adapted for the requirements; the tract of land contains over 15 acres and has a frontage of 1,300 feet along the freight yard tracks of the New York, New Haven & Hartford Railroad, near its station at Readville. The water supply is ample and the space for dumping waste is sufficient to meet all requirements for years to come.

The plant comprises a commodious four-story office building, measuring 45 x 125 feet; a three-story building 80 x 500 feet devoted to the manufacture of blowers, heaters and galvanized to the removal of the entire plant from These cards are filed in the order of the iron work; a building 80 x 250 feet of Jamaica Plain. the same height, on the first floor of which all engines will be tested, stored which all engines will be tested, stored way of its length by fire walls enclosing sufficient to locate a pattern. A given and shipped, while the other floors will stairs, elevators, etc. One-half the build-be utilized by the electrical department; ing, with stories respectively 17 and 15 that is, it is upon the second floor, as a general machine shop measuring  $120 x^{+}$  feet, is devoted to the flask and pattern shown by the first numeral, "2," it is in 500 feet, with 40 feet side galleries de-' making rooms, while the other half, pro-the building of 'vided with intermediate floors, making division of that row as shown by the successful division of that row as shown by the successful division of that row as shown by the successful division of that row as shown by the successful division of that row as shown by the successful division of that row as shown by the successful division of that row as shown by the successful division of the same floor area. The flask-shop measuring two-story building of the same floor area devoted exclusively to lockers, washing about 60x80 feet, is equipand sanitary facilities for the employees. a pattern and storage building 80 x 150 feet in ground plan a foundry measur ing 170 x 350 feet . a power house 80 feet square with detached five and service pump house All told the aggregate floor area of the buildings exceeds nine acres Brick has been used for all walls stept cotom - and grains form ; art the construction of such buildings as are 40 feet and together with equipped with travelling cranes, all an over head transfer truck upper floors are of plank with top course reduces to a minimum the of maple, laid on heavy wooden beams cost of handling flasks. and designed in the case of the principal. The lumber for their manubuildings for carrying safe loads of 200 to facture is unloaded from 250 pounds per square foot. The roofs, cars directly in front of the



FOUNDRY AND PATTERN BUILDINGS.

The pattern building is divided mid-

The flask-shop measuring ped with hand cross cut and splitting saws boring ma chine and lathe all driven by a 10 h p Sturtevant motor suspended from the ceiling. The industrial railway runs directly into this room from the foundry a!..

When writing to Advertigers kindly montion THE CANADIAN MANUFACTURES.