materials to be ground; cast iron, steel, which must be duplicated to make the grindug operation continuously efficient.

It is for this most important reason that great stress is placed on ovenness in quality and this requisite is to the highest degree by any buyer. found in alundum.

The last step in the process of manufacturing the Norton wheel, is testing for safety, shown in cut.

for whom the wheel is intended. This record for the transmission of power, is stated to wheels each day before a Justice of the Peace, by a firm in Charlottenburg, its advantages and carefully filed by the Norton Co. A being given as follows:

Canadian manufacturers or other users of Further, owing to the lightness of weight of trass glass, bone, leather, wood and other grinding wheels desiring more detailed in- the steel belting, it is claimed, the influence substances demand wheels of special grade formation regarding alundum should apply of the centrifugal force is not so great and which must be duplicated to make the grind- for same to the Canadian Fairbanks Co., allows of much increased velocity. Limited, the Canadian selling agents for the Norton Co. As large stocks are carried in their warehouses at Montreal, Toronto, St. of the abrasive itself. Grades cannot be John, Winnipeg, Calgary and Vancouver, duplicated accurately without having a and as catalogues and booklets fully des-known and dependable factor in the uni- cribing the product will be sent for the ask-John, Winnipeg, Calgary and Vancouver, femity of the material composing the wheel ing, full information can readily be secured

## Steel Belting in Germany.

## LOCKERBY & McCOMB.

The various methods of using tarpaper and tarred felt in roofing were well illustrated in the exhibit of Lockerby & McComb, of Montreal, at the Canadian Builders' Show, Models of four common types of roof were shown.

The various stages in the construction of the various stages in the construction of the boys is the stages in the construction of the boys is the stages in the construction of the boys is the boys is the stages in the construction of the boys is the boys is the stages in the construction of the boys is the boys repared form with description on wheel, German technical paper, the use of steel hopper roof is growing in favor because. runder of revolutions, order number, and bands to take the place of leather belting draining to the centre it dispenses with the is signed and sworn to by the tester of the have proved practicable after repeated tests need of gutters, and all danger from icicles A hip or slanting roof covered with 3 ply

ready roofing was 'shown. This roofing is



FIG. 4.-THE MANUFACTURE OF ABRASIVES.

citting quality, shape and size.

trasive stones.

moth is preserved of each order so that it The points of superiority claimed for this recommended for work of a temporary nature

uting quality, shape and size. the following: On account of its solidity, Very few people realize the many uses a much narrower band can be used, one-sixth e. etc In the foundry for grinding cast-land, as it can be very tightly adjusted, the insurance against leaks. zz. The sawyer gums and files his saws distance between the engine and the machine ascertained, will not exceed 1 per cent. machinery.

ca be duplicated exactly as to composition, new method for the transmission of power are and is good ordinarily from five to ten years.

The dead air space roof shown in another model, is one that is growing in favor. This which grinding wheels are employed, of the width of the usual leather band being is really a double roof, the air space serving Iterate used in the machine shop for sharpen - sufficient; as a result of this the steel band to make it cooler in summer and warmer in zz all kinds of tools, cutters, reamers, taps, is not so heavy as the usual leather band, winter, and the double layer is an additional

During the ten years that they have been in with an alundum wheel with no danger of is not a matter of importance, as is the case business in Montreal, Lockerby & McComb training the temper of the tool. The leather with the leather belting, where the transmis-have built up a large connection. Previous tows on a grinding wheel. The manufac- of the hanging belt; by a unique contact they were for many years connected with one tring entician grinds the edges of lenses the slipping is much reduced, experiments of the largest roofing firms in Canada. A is the glasses. In the great glass works having shown that this does not exceed serious fire completely destroyed their plant teiding fluting, edge grinding of tumblers, one-tenth of I per cent Careful and repeated last January, but with characteristic energy the there is the stars, and fine work of all experiments have shown that the entire loss they proceeded to rebuild, and it is now fully statter calls for grinding wheels and of power is very small, and as far as can be equipped again with the most up-to-date

.

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