enough to clear a 24-inch bank of snow without dragging. If desired, the machine may be set to an offset on the front and rear sleds, so that when cutting the bank away in widening the road, the horses travel on part of the road already cleared.

In one traverse the machine clears a space $5\frac{1}{2}$ feet wide. The depth of cut and the slope of its surface may



be regulated by moving the rotary cutters as the machine passes along. Thus the surface of the road can be made everywhere the same height. An uneven or tilted surface can be levelled; or a 22-inch comb, 1 inch to 4 inches high, can be left by centre plow adjustment. In two traverses (out and return) a road 11 feet wide can be cut, and this width can be increased by additional traverses, the snow being thrown beyond the part already cleared.

At the Good Roads Congress held this month in Hamilton, Ont., the following discussion arose concerning this new snow plow:—

new snow plow :--Col. T. Hugh Boorman, of New York City: "I notice in the hall a picture of a rotary snow plow which has been used in Outremont. I came to Canada to see if there is any possible way, in these days of war, of economizing. I understand there is great shortage of labor, and any man who is saving an hour's time is doing his bit. I am

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sure we should be glad to hear if you could tell us whether there is any saving of labor by the use of the Stadig machine."

The president of the congress, Mr. Duchastel: "I will be very pleased to give you my experience with the machine. We have in the locality of which I am engineer, a machine built on the Stadig patent. While I admit that it is not a machine to be used in a city proper, it has done wonderful work in our suburban area. We have building regulations that are rather severe and our streets are rather wide. They vary between sixty-five and eighty feet, and we compel the citizens to build their houses anywhere from ten to thirty feet back from the street line. I bring this out simply to show you we have plenty of space on which to throw the snow.

"We have used this machine for one year. The machine picks up the snow with a rotary plow and pro-



jects it to either side. Flanges direct the snow, and if the wind is high, a great quantity of this snow is blown away. I have had figures very closely calculated on the work performed by this machine, including the cost of operation, the cost of depreciation, and so forth. I have found that we have economized on our main thoroughfares; we have brought down the cost of removal to less than one third of what it had cost us with sleighs

and teams. And I may say our removal of snow with teams and sleighs is exceptionally low, because we own our own horses, which are very strong, powerful animals—we pride our-

selves on having only the best type of horses, weighing about 1,700 pounds

Sketch Showing General Assembly of Rotary Snow Plow