many of them have been received. Third, to know the location of each pattern, whether at the foundry, in the pattern shop, or in storage. Fourth, to record all changes in patterns. Fifth, to provide the foundry with an efficient method of properly filling their orders.

Naturally the system starts in the drafting

Foundry\_\_\_\_\_\_\_Order No.\_\_\_\_\_\_\_No.\_\_\_\_\_No.\_\_\_\_\_\_\_Patty No.\_\_\_\_\_\_\_

Date Made Lost

This card properly filled out must be returned with castings to insure proper credit for same.

Fig. 2-Card Sent to Patternmaker.

room which, after designing a new machine, prepares a complete list of the parts on the said machine. This is then divided into three lists, a casting list, a steel list, and a bolt and screw list. The casting list is the only one which interests us here, the steel and screw lists being distributed to the foremen and to the cost department. These lists are typewritten on letter-size paper with a black ribbon and a black carbon paper with the carbon side against the back of the sheet, thus giving a list which may be blue-printed, and hence can be made very cheaply. The blue printed list like any blue print will stand plenty of handling in the shop before it is too dirty to be read. The casting list shows the pattern number, the name of the piece, the material, the number required for one machine and the drawing number.

In explanation of the first object, let us take a certain type of lathe made in four sizes, say 12, 16, 20 and 24 inches, and known as No. 24 lathe. There are several parts which are used on all sizes and these are given numbers above 400, for instance a certain sleeve is No. 24-423. All parts used only on the 12-inch are given numbers below 100, those on the 16-inch, 100 to 200 and so on. The bed for the 12-inch is 24-1, for the 16-inch, 24-201, and for the 24-inch, 24-301, and similarly for each part like the leg, the headstock, etc. The bed on all lathes of other types is numbered 1 or 101 and so on according to the number of different sizes made.

When the pattern is made, a card like Fig. 1, is made out and put in its place in the

index case. The weight spaces are filled out from the records of the casting-room foreman. The patterns are stored on shelves, divided into sections, which are plainly marked with the machine number. To fill up a production order for a number of 24-inch surfacers, the order clerk takes the casting list for that machine and makes out cards like

Foundry  Date Order No.		
No. Wanted		
Date	Received	Total Weight
-		-
		+
	-	-

Fig. 3-Card Sent to Casting Room.

Fig. 2, which are sent to the pattern shop. A duplicate like Fig. 3 goes to the casting room so the receiver will know what it can be taken to the foundry. If the eard shows it to be at the foundry, the card is sent there and on receiving it they know the moulder has the patterns. When the pattern goes to the foundry, the date and the foundry name are entered as shown in Fig. 1, and when it is returned the date is entered after the word, IN. In the space after the date the condition of the pattern is noted, or the loss of any parts is recorded.

The card shows at all times where the pattern is, and if in storage, its condition, and as the eastings are ordered in large lots, the care of the card is nominal. On the back of the card is a space for entering the changes and the date of same.

Fig. 4 shows a pattern change card which is self-explanatory. —American Machinist.

## Commercial Travellers' New Officers

At the general meeting of the Dominion Commercial Travellers' Association (the Eastern organization), held Saturday evening, Mr. S. J. Mathewson, of Montreal, was appointed president by acclamation. Mr. J. Bevan Giles was appointed vice-president, and Mr. Max Murdock was re-elected treasurer by acclamation. Messrs. A. J Brown, Louis Decelles, H. H. Hughes, H. M. Levin, C. D. O'Brien, J. T. McBride, F. N. Picard, G. W. Prescott, and Charles Roberts were placed in nomination to fill the places of the five directors whose term of office is about to expire. An election will be necessary. The annual meeting was fixed for Saturday, December 12, and it was decided to hold the annual dinner at a place and date to be arranged by a committee which has been appointed for the purpose.

At the general meeting of the Commercial Travellers' Association of Canada (the Western organization), held Saturday evening

PATT. NO.	CHANGE CARD
Pattern Shop will change above Sign and return card to drafting	attern per drawing No
	7. 1.

Fig. 4—Card for Ordering Pattern Changes.

castings are coming and can check them off until the order is filled.

Upon receipt of the casting order, Fig. 2, the patternmaker consults his change i dex to see if any of the patterns from which castings are ordered, have been ordered changed and are still unfinished. If the pattern is ready and the eard shows it to be in the storage, he obtains it, and fastens the order to it so in Toronto, Mr. John Gibson was elected president by acclamation; Mr. Robert Gemmell, first vice-president; Mr. S. M. Sterling, second vice-president. Messrs. E. Fielding and John M. Kenney were nominated for the office of treasurer. The annual meeting will be held in St. George's Hall on Wednesday, December 23, and the result of the elections will be declared.