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A Handbook of all the Cotton, Woolen and other Textile manufactures
of Canada, with lists of manufacturers' agents and the wholesale and
retail dry goods and kindred trades of the Dominion, to which is
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Editorial.

MULTI-COLOR PRINTING MACHINE

The Orloff machine for printing in colors is, in its
operation, a departure from any machine hitherto used
for a like purpose, says Engineering, London, Eng. It
is the invention of Ivan Orloff chief engineer and man-
ager of the Russian Government printing works, at St

Petersburg, and it possesses many points of interest.
In the ordinary flat color printing machine the succes-
sive colors are applied one at a time, as each one be-
comes dry, but the Orloff machine puts down all the
colors on the paper at once, so that a great saving of
time is effected. The principle of the machine is as fol-
lows: The blocks, which takes the different colors, are
fixed to a cylinder of large diameter, and each block
receives the supply of colored ink intended for it, and as
the cylinder revolves the ink on each block is trans-
ferred to a composition roller very similar to an ordi-
nary inking roller. After all the colors have been trans-
ferred to this roller, each in its proper position, an en-
graved block or form follows and receives a perfect im-
pression from the composition roller. Thus impressed,
the form passes on and comes in contact with the paper
on the impression cylinder, where it prints all the colors
at one operation. The whole of these various transfer-
are performed during one revolution of the cylinder.
While the blocks pass under the inking rollers the latter
are at the proper time lowered by a system of cams so
as to come into contact with the blocks which they are
intended to ink. The number of colors that can be
used is only limited by the number of blocks and the size
of the machine. All the operations go on continuously,
as the cylinder revolves in one direction only. The
number of finished impressions is stated to be about
1,000 per hour. The machine was originally designed
for the Russian Government to print multi-colored pat-
terns for bank notes, and it appears to be well adapted
for this purpose. We understand that the Russian
authorities have thirty-two of these machines at work
in St Petersburg on their new issue of paper money,
and also producing bank notes for the Chinese Govern-
ment.

The Dyer and Calico Printer, in discussing the in-
vention, says. "The machine puts down all the colors
at once in absolutely correct register, and as quickly as
an ordinary machine prints a single color. A contem-
porary, whose opinion is of value, says that the inven-
tion merits close investigation by calico printers, but
after inspection of the process, we hardly think the
method suitable for textile printing. The printing sur-
face is not inked directly by the color rollers, and this
would give too little solidity for textiles."