


WE CLAIM;

1. Device for the grinding of drafting rolls (7) with a grinding roll (2), at which a drafting roll (7) can be advanced to the grinding roll casing on the first side thereof by an automatically driven first sliding carriage (6) holding the drafting roll, the first sliding carriage (6) being mounted on a sliding carriage guide (5) characterized in that a second sliding carriage guide (8) is secured to the grinding roll (2) on the second side opposite the sliding carriage guide (5), the second sliding carriage guide (8) supporting a hand-driven second sliding carriage (9), and that the direction of rotation of the grinding roll is reversible.

Dated this 16th day of September, 1976



of L. S. DAVAR & CO
Applicants' Agent

1648 10/11 1996

16 SEP 1996

THE PATENTS ACT, 1970

119227

16 SEP 1996

5-1
COMPLETE

SPECIFICATION

SECTION 10

_____ : 0 : _____

TITLE

DRAFTING ROLLS"

"DEVICE FOR GRINDING OF ~~SPINNING CYLINDERS~~"

APPLICANT

WOLTERS-PLATT GMBH, of
Industriestrasse 37, 40822 Mettmann,
Germany, a German Company.

The following specification particularly describes and ascertains the nature of this invention and the manner in which it is to be performed.

ORIGINAL

THE PATENTS ACT, 1970

**COMPLETE
SPECIFICATION**

SECTION 10

**The following Specification particularly describes the nature
of this invention and the manner in which it is to be performed.**

The invention pertains to a device for grinding of drafting rolls with a grinding roll, at which on one side of the grinding roll casing a drafting roll can be brought through a sliding carriage, which is holding the drafting roll and is automatically driven to the grinding roll casing, in the process of which the sliding carriage is supported on a guide.

It is known that for grinding of drafting rolls, one has to attach the drafting rolls to an automatically working sliding carriage, through which the drafting roll is carried (led) into the grinding roll as automatically controlled. If in case of this known machine a drafting roll has to be ground manually, then the automatically actuated sliding carriage must be restructured and a manually actuatable (controllable) device must be assembled at this position. This is a very time consuming work.

The task of the invention is to improve upon a device for grinding of drafting roll in such a manner, that without a reconstruction of the machine the drafting rolls are ground both automatically and manually. This problem is solved according to the invention thereby, that a second sliding carriage guide is attached to the grinding roll on the second side opposite to the first side or the first sliding carriage guide, which supports a manually actuatable (controllable) second sliding carriage, and that the direction of rotation of the grinding roll is reversible.

As a result of the attachment of a second manually actuatable (controllable) sliding carriage on the second side of the grinding roll opposite to the first side or the first sliding carriage, it is no longer required for manual grinding, to reconstruct the automatically driven sliding carriage. A drafting roll can be ground immediately by hand and in the process only the direction of rotation of the grinding roll requires to be reversed with the help of an electrical change-over switch.

Such a design is not only time saving, but also easy to operate and is of simple construction. A faulty modification is ruled out.

A form of execution of the invention is represented in the accompanying drawing and is described in details below in which:

Figure 1 : A lateral view of the grinding machine and

Figure 2 : a plan view of the grinding machine of Figure 1 in schematic form.

A grinding roll 2 is supported centrally on the horizontal top side of a machine table 1, which is drivable in two directions of rotations with the help of an electric drive motor 3. Below the grinding roll 2 arranged with the horizontal axis, a suction device 4 is attached.

A first sliding carriage guide 5 is screwed-on the table top at the first side, on which a first sliding carriage 6 is supported which is horizontally moveable, and can be led towards and away from the grinding roll 2 which is controlled automatically. The drafting rolls 7 are attachable at the sliding carriage 6 which are ground with the help of the grinding roll 2.

On the second side of the grinding roll 2 opposite to the first side and first sliding carriage guide 5 a second sliding carriage guide 8 is screwed-on the second side of the table, on which a second carriage slide 9 is attached and is movable horizontally, towards and away from the grinding roll 2. For movement of the sliding carriage 9 there is provided a crank handle 10 at the sliding carriage guide 8. At the second sliding carriage 9, the drafting rolls 7 are attachable in the same manner for grinding, which are led into the grinding roll 2 through manual actuation of the crank handle 10.

As a matter of rule, the drafting rolls 7 are automatically ground by the sliding carriage guide and first sliding carriage 5, 6 with the help of the grinding machine. If the drafting rolls 7 has to be controlled and ground by hand, then the drafting roll 7 is attached at the second sliding carriage 9, the direction of rotation of the drive motor 7 is reversed with the help of a throw-over switch and thereafter the drafting roll is driven to the grinding roll 2 through the crank handle 10.

ABSTRACT:

Device for the grinding of drafting rolls with a grinding roll at which a drafting roll can be advanced to the grinding roll casing on the one first side thereof by an automatically driven sliding carriage holding the drafting roll, the sliding carriage being mounted on a sliding carriage guide characterized in that a second sliding carriage guide is secured to the grinding roll on the side opposite the sliding carriage guide, the second sliding carriage guide supporting a hand-driven second sliding carriage, and that the direction of rotation of the grinding roll is reversible.

