ADJUSTABLE TOBACCO PIPE REAMER

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My invention appertains to reamers for tobacco pipes in which the scraper blades are mounted on a holder for relative movement by which the reamer can be adjusted to suit different sized pipe-bowls.

It is a general object of the invention to provide a sturdy and compact reamer of the type referred to characterized in that a pair of cooperating scraper blades are employed and carried by a telescopic holder formed of an inner member slideable on an outer member and controlled by a screw device for adjusting the scraper blades.

More specifically it is an object of the invention to provide a holder for the blades comprising an inner plate-like member and an outer chambered member which slidably receives the inner member and is provided with a boss threadedly engaged with a screw shouldered on said inner member and supplied with an external head or knob to be turned by hand.

Another object of the invention is to provide an adjustable reamer in which an extensible holder is formed of a plastic material and with integrated scraper blades encased in metal shells on which scraper teeth are supplied. A distinctive feature of the construction is that one of the metal shells has a struck-up finger engaged in a slot in the holder to limit outward movement of the scraper blades.

The invention will be clearly understood from the ensuing specification and drawing.

In the drawing

Fig. 1 is a side view of the reamer showing the scrapers in open position.

Fig. 2 is a similar view but showing the scrapers closed.

Fig. 3 is a longitudinal sectional elevation of the device with the scrapers in open position as shown in Fig. 1.

Fig. 4 is a cross section of the device taken on line 4-4 of Fig. 3.

Fig. 5 is a perspective view of the inner member.

Fig. 6 is a perspective view of the metal shell which forms a part of the scraper of the inner member.

Fig. 7 is a perspective view of the outer member of the device.

In the selected embodiment of the invention disclosed in the drawing the device comprises a blade holder formed of an inner member 8 and an outer member 9. Said members are telescopically interfitted and each carries a depending scraper blade 10. The blades are insertible in the bowl of a tobacco pipe for scraping the wall surface there-
just the scraper blades. Said screw device comprises an elongated boss 26 carried by the rear wall 13 of the outer member 3 to extend forwardly and freely within a recess 21 formed in the enlargement 11 of the inner member 8. The boss 26 is provided with a threaded hole 28 engaged by a screw 29 shouldered in the inner member 8 and protruding from the outer end face thereof where it is supplied with a knurled head 30 by which it may be conveniently turned by hand.

To ream the bowl of a pipe for removal of any adhering deposit it is only necessary to adjust the scraper blades to fit the bowl and then to engage the blades in the bowl and turn them as required by means of the holder element. The device can be made with a range of adjustment so that it can be used for pipe bowls of various sizes. It provides a sturdy scraper tool which is inexpensive to manufacture, and one in which the telescopic holder and the blade-bodies can be fashioned of a plastic material in an attractive and compact design.

What is claimed is:

A reamer for a tobacco pipe comprising an inner member and an outer member forming a holder of a general rectangular outline, said inner member being a plate-like element having a front end and a rear end and being enlarged through its length at its bottom portion, the enlargement being recessed from its rear end toward its front end, said outer member having side walls, a top wall and a back wall, which walls form a chamber in which said inner member is endwise slidable, said side walls being shaped to accommodate said enlargement of said inner member, a scraper blade rigidly depending from said inner member, a scraper blade rigidly depending from said outer member for co-acting with said scraper blade, and means for controlling the sliding movement of said inner member whereby to adjust the proximity of said scraper blades, said means consisting of a boss extending from said back wall of the outer member and into said recessed enlargement of the inner member, and a headed screw threadedly engaged in said boss and shouldered in said recessed enlargement, said screw projecting through the front end of the inner member with its head disposed externally thereof.

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REFERENCES CITED

The following references are of record in the file of this patent:

UNIVERSAL PATENTS

<table>
<thead>
<tr>
<th>Number</th>
<th>Name</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,423,502</td>
<td>Illig</td>
<td>July 25, 1922</td>
</tr>
<tr>
<td>1,669,625</td>
<td>Issel</td>
<td>May 15, 1931</td>
</tr>
</tbody>
</table>

FOREIGN PATENTS

<table>
<thead>
<tr>
<th>Number</th>
<th>Country</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>14,626</td>
<td>Great Britain</td>
<td>July 27, 1909</td>
</tr>
<tr>
<td>357,831</td>
<td>Great Britain</td>
<td>Oct. 1, 1931</td>
</tr>
</tbody>
</table>