Title (en)
Adjustable grip handles for tools, sporting equipment, and the like.

Title (de)
Stiel mit einstellbarem Griff für Werkzeuge, Sportgeräte und dergleichen.

Title (fr)
Manche avec poignée ajustable pour des outils, équipements sportifs et instruments similaires.

Publication
EP 0468807 A1 19920129 (EN)

Application
EP 91306837 A 19910726

Priority
US 56084390 A 19900727

Abstract (en)
An adjustable grip handle for tools, sporting equipment, and the like is provided using a handle base (12), a handle augmenter (15), attachment provisions (13) to connect the handle augmenter to the handle base and retaining provisions (19) to retain the augmenter on the handle base. Handle grip size is adjusted by either selecting from an assortment of handle augmenters, or by positioning a common handle augmenter in one of several positions on the handle base, depending on the particular embodiment employed. <IMAGE>

IPC 1-7
A63B 49/08; B25G 1/10; F41C 23/10

IPC 8 full level
B25G 1/04 (2006.01); A63B 49/08 (2006.01); B25G 1/00 (2006.01); B25G 1/10 (2006.01); F41C 23/10 (2006.01)

CPC (source: EP KR US)
A63B 49/08 (2013.01 - US); A63B 60/00 (2015.10 - US); A63B 60/30 (2015.10 - EP); B25G 1/00 (2013.01 - EP KR); B25G 1/102 (2013.01 - EP); F41C 23/10 (2013.01 - EP); A63B 60/06 (2015.10 - EP); A63B 60/08 (2015.10 - EP); A63B 60/10 (2015.10 - EP)

Citation (search report)
- [X] US 4630387 A 19861223 - CRANE JAMES W [US], et al
- [X] ES 2002103 A6 19880716 - CUERVO ALONSO FRANCISCO [ES]
- [X] US 3109653 A 19631105 - CHAMPION BIGGS STANLEY
- [X] US 2034632 A 19360317 - RIENZI RICE
- [Y] US 2787855 A 19570409 - GUYMON ALONZO F

Cited by
EP0729004A3

Designated contracting state (EPC)
CH DE ES FR GB IT LI SE

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EP 0468807 A1 19920129; CA 2046718 A1 19920128; JP H0655464 A 19940301; KR 920002278 A 19920228

DOCDB simple family (application)
EP 91306837 A 19910726; CA 2046718 A 19910710; JP 18096991 A 19910722; KR 910012902 A 19910726